Pioneer sound.vision.soul

Service Manual



ORDER NO. RRV2921

DVD PLAYER

DV-575A-S DV-575A-K DV-578A-S

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Model	Туре	Power Requirement	Region No.	Serial No. Confirm 3rd & 4th alphabetical letters.
DV-575A-S	KUXCN/CA	AC120V	1	&&TE#####\$\$
DV-575A-S	WYXCN	AC220-240V	2	&&TE#####\$\$
DV-575A-S	WVXCN	AC220-240V	2	&&TE#####\$\$
DV-575A-K	WYXCN	AC220-240V	2	&&TE#####\$\$
DV-578A-S	KUXCN/CA	AC120V	1	&&TE#####\$\$









For details, refer to "Important symbols for good services".

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SAFETY INFORMATION



This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols - (fast operating fuse) and/or - (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible — (fusible de type rapide) et/ou — (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

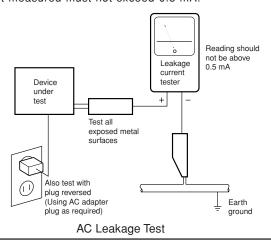
(FOR USA MODEL ONLY) -

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a \triangle on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

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DV-575A-S

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This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual. Improperly performed repairs can adversely affect the safety and reliability of the product and mayvoid the warranty. If you are not qualified to perform the repair of this product properly and safely, youshould not risk trying to do so and refer the repair to a qualified service technician.

WARNING! -

THE AEL (ACCESSIBLE EMISSION LEVEL) OF THE LASER POWER OUTPUT IS LESS THAN CLASS 1 BUT THE LASER COMPONENT IS CAPABLE OF EMITTING RADIATION EXCEEDING THE LIMIT FOR CLASS 1.

A SPECIALLY INSTRUCTED PERSON SHOULD DO SERVICING OPERATION OF THE APPARATUS.

- LASER DIODE CHARACTERISTICS -

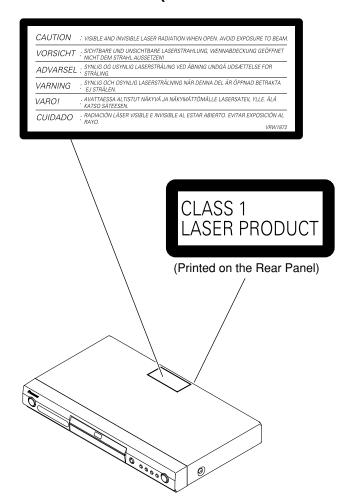
FOR DVD: MAXIMUM OUTPUT POWER: 5 mW

WAVELENGTH: 650 nm

FOR CD: MAXIMUM OUTPUT POWER: 5 mW

WAVELENGTH: 780 nm

LABEL CHECK (for DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN)



Additional Laser Caution

- 1. Laser Interlock Mechanism
 - Loading switch (S101 on the LOAB Assy) is used for interlock mechanism of the laser.

When this switch turned ON in SW2 (CLOSE) side (OPEN signal is 0V and CLOSE signal is 3.5V), a laser becomes the status which can completely oscillation.

Furthermore, the laser completely oscillates in the disc judgment and disc playback.

When player is power ON state and laser diode is not completely oscillating, 780nm laser diode is always oscillating by half power.

 Laser diode is driving with Q7 (650nm LD) and Q8 (780nm LD) on the DVDM Assy.

Therefore, when short-circuit between the emitter and collector of these transistors or the base voltage is supplied for transistors turn on, the laser oscillates. (failure mode)

• In the test mode * , there is the mode that the laser oscillates except for the disc judgment and playback. LD ON mode in the test mode oscillates with the laser forcibly.

The interlock mechanism mentioned above becomes invalid in this mode.

- 2. When the cover is open, close viewing through the objective lens with the naked eye will cause exposure to the laser beam.
- * : See page 61.

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[Important symbols for good services]

In this manual, the symbols shown-below indicate that adjustments, settings or cleaning should be made securely. When you find the procedures bearing any of the symbols, be sure to fulfill them:

1. Product safety

1



You should conform to the regulations governing the product (safety, radio and noise, and other regulations), and should keep the safety during servicing by following the safety instructions described in this manual.

2. Adjustments



To keep the original performances of the product, optimum adjustments or specification confirmation is indispensable. In accordance with the procedures or instructions described in this manual, adjustments should be performed.

3

3. Cleaning



For optical pickups, tape-deck heads, lenses and mirrors used in projection monitors, and other parts requiring cleaning, proper cleaning should be performed to restore their performances.

4. Shipping mode and shipping screws



To protect the product from damages or failures that may be caused during transit, the shipping mode should be set or the shipping screws should be installed before shipping out in accordance with this manual, if necessary.

5. Lubricants, glues, and replacement parts



Appropriately applying grease or glue can maintain the product performances. But improper lubrication or applying glue may lead to failures or troubles in the product. By following the instructions in this manual, be sure to apply the prescribed grease or glue to proper portions by the appropriate amount. For replacement parts or tools, the prescribed ones should be used.

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1. SPECIFICATIONS

Α	KU/CA type	Audio output (multi-channel / L, R, C, SW, LS, RS)
_	General System	Output level During audio output 200 mVrms (1 kHz, -20 dB) Number of channels
•	Power consumption DV-575A / DV-578A	Digital audio characteristics Frequency response 4 Hz to 44 kHz (DVD fs: 96 kHz)
В	Power consumption (standby) DV-575A / DV-578A	4 Hz to 88 kHz (DVD-Audio fs: 192 kHz) S/N ratio
	Operating temperature+5°C to +35°C (+41°F to +95°F)	(±0.001% W. PEAK) or lower Digital output Coaxial digital output jack
•	Operating humidity 5% to 85% (no condensation)	Optical digital output Optical digital jack
С		Accessories Audio/video cable
	S-video output Y (luminance) - Output level 1 Vp-p (75 Ω) C (color) - Output level 286 mVp-p (75 Ω) Jack	Remote control
D	Audio output (1 stereo pair) Output level	The specifications and design of this product are subject to change without notice, due to improvement.

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DV-575A-S

General

SystemDVD player
Power requirements AC 220–240 V, 50/60 Hz
Power consumption
Power consumption (standby)0.12 W
Weight
Dimensions 420 (W) x 55 (H) x 243 (D) mm

Operating temperature +5°C to +35°C
Operating humidity 5% to 85%
(no condensation)

AV connector output

AV Connector (21-pin connector assignment) AV connector output21-pin connector This connector provides the video and audio signals for connection to a compatible colour TV or monitor.

20 18 16 14 12 10 8 6 4 2



21 19 17 15 13 11 9 7 5 3		21	19	17	15	13	11	9	7	5	3
---------------------------	--	----	----	----	----	----	----	---	---	---	---

PIN no.
1 Audio 2/R out
3 Audio 1/L out
4
7 B out
8 Status
11
15 R or C out
17GND
19 Video out or Y out
21GND

Component video output

Y (luminance) - Output level 1 Vp-p (75 Ω)
P_B (color) - Output level 0.7 Vp-p (75 $\Omega)$
P_{R} (color) - Output level 0.7 Vp-p (75 $\Omega)$
.lack RCA

S-video output

Y (luminance) - Output level I Vp-p (75 Ω)
C (color) - Output level 286 mVp-p (75 Ω)
JackS-video

Video output

Output	leve	۱.									1	٧	/p	-p)	(7	75	Ω)
Jack																	R	C/	1

Audio output (1 stereo pair)

Output level	During audio output
	200 mVrms (1 kHz, -20 dB)
Number of channels	
Jacks	RCA

Audio output (multi-channel / L, R, C, SW, LS, RS)

Output level	During audio output
	200 mVrms (1 kHz, -20 dB)
Number of channels	
Jacks	RCA iack

Digital audio characteristics

Frequency response 4 Hz to 44 kHz
(DVD fs: 96 kHz)
4 Hz to 88 kHz (DVD-Audio fs: 192 kHz)
S/N ratio
Dynamic range101 dB
Total harmonic distortion0.0020 %
Wow and flutter Limit of measurement
(+0.001% W PEΔK) or lower

Digital output

rigitai oatp	•••	
Coaxial digital	output jack	RCA jack
Optical digital	outputO	ptical digital jack

Accessories

7144455501145
Audio/video cable
Power cable
Remote control 1
AA/R6P dry cell batteries2
DivX compatibility sheet
Operating Instructions
Warranty card1

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2. EXPLODED VIEWS AND PARTS LIST

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- Screws adjacent to ▼ mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

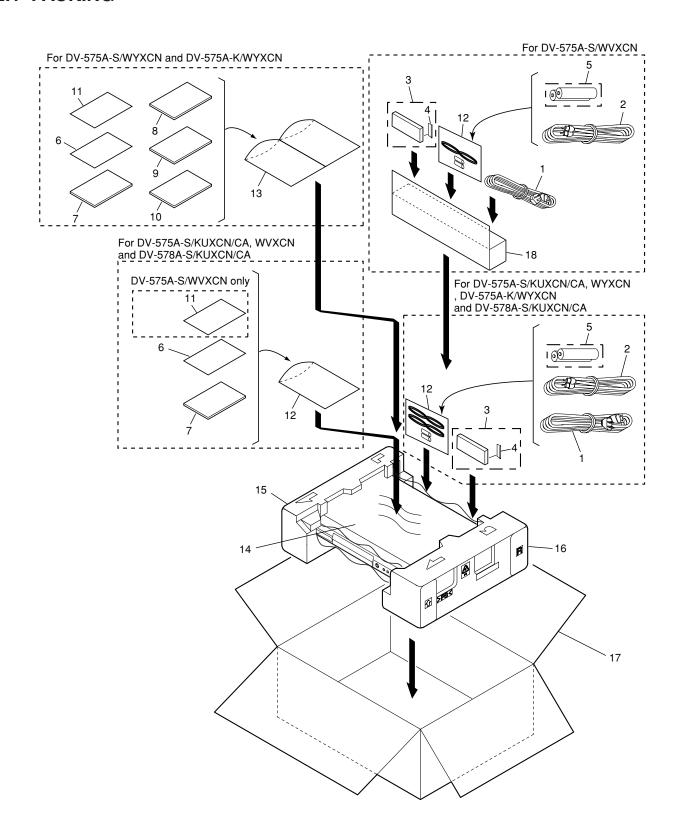
2.1 PACKING

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PACKING parts List

Mark	No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.
\triangle	1	Power cable	See Contrast table(2)	10	Operating Instructions	See Contrast table(2)
	2	Audio/Video Cable	VDE1078		(Spanish/Dutch)	
	3	Remote Control	VXX2913	11	DivX Compatibility Sheet	See Contrast table(2)
	4	Battery Cover	VNK4997	12	Polyethylene bag B5	VHL1051
NSP	5	Dry Cell Battery (AA,R6P)	VEM1010	13	Polyethylene bag B5x2	See Contrast table(2)
NSP	6	Warranty Card	See Contrast table(2)	14	Polyethylene Bag	VHL1076
	7	Operating Instructions (English)	See Contrast table(2)	15	Pad L	VHA1358
	8	Operating Instructions	See Contrast table(2)	16	Pad R	VHA1359
		(English/Italian)		17	Packing Case	See Contrast table(2)
	9	Operating Instructions	See Contrast table(2)	18	Accessory Box	See Contrast table(2)
		(French/German)				

(2) CONTRAST TABLEDV-575A-S/KUXCN/CA, WYXCN, WVXCN, DV-575A-K/WYXCN and DV-578A-S/KUXCN/CA are constructed the same except for the following:

Mark	No.	Symbol and Description	DV-575A-S/ KUXCN/CA	DV-575A-S/ WYXCN	DV-575A-S/ WVXCN	DV-575A-K/ WYXCN	DV-578A-S/ KUXCN/CA
<u> </u>	1	Power cable	ADG7022	ADG1154	ADG1156	ADG1154	ADG7022
NSP	6	Warranty Card	ARY7045	ARY7065	ARY7065	ARY7065	ARY7045
	7	Operating Instructions (English)	VRB1331	Not used	VRB1332	Not used	VRB1331
	8	Operating Instructions (English/Italian)	Not used	VRD1192	Not used	VRD1192	Not used
	9	Operating Instructions (French/German)	Not used	VRD1193	Not used	VRD1193	Not used
	10	Operating Instructions (Spanish/Dutch)	Not used	VRD1194	Not used	VRD1194	Not used
	11	DivX Compatibility Sheet	Not used	VRX1049	VRX1049	VRX1049	Not used
	13	Polyethylene bag B5x2	Not used	VHL1069	Not used	VHL1069	Not used
	17	Packing Case	VHG2489	VHG2490	VHG2497	VHG2492	VHG2496
	18	Accessory Box	Not used	Not used	VHC1114	Not used	Not used

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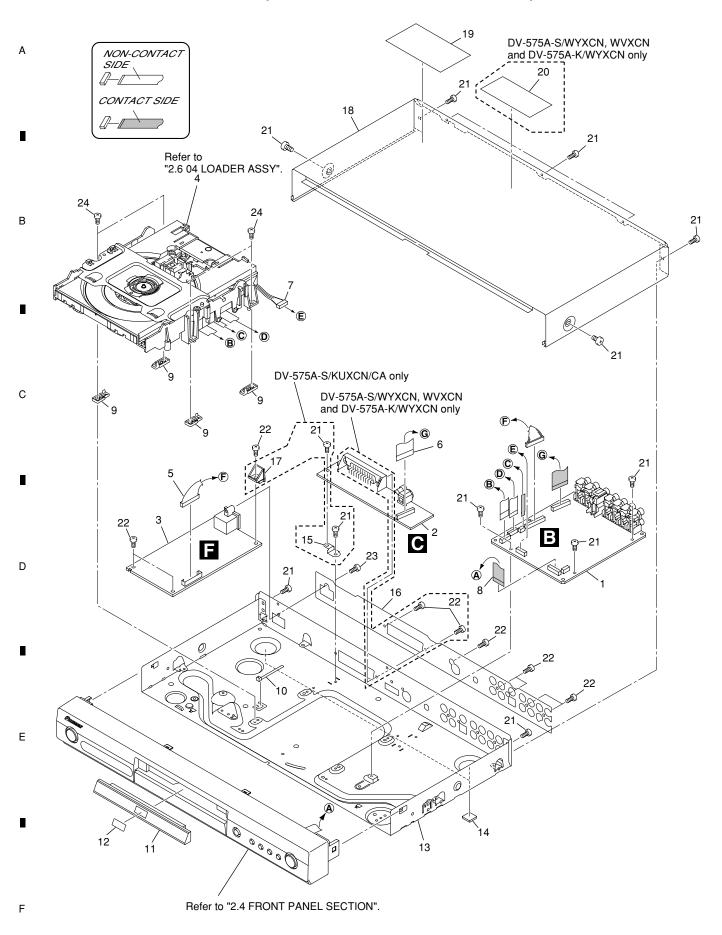
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2.2 EXTERIOR SECTION (for DV-575A-S and DV-575A-K)



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EXTERIOR SECTION parts List (for DV-575A-S and DV-575A-K)

Mark No.	Description	Part No.	Mark No.	Description	Part No.	
1	DVDM Assy	See Contrast table(2)	14	Rubber Foot	VEB1349	
2	JCKB Assy	See Contrast table(2)	15	PCB Base	See Contrast table(2)	Α
<u> </u>	POWER SUPPLY Unit	See Contrast table(2)				
NSP 4	04 LOADER Assy	VWT1210	16	Rear Sheet	See Contrast table(2)	
5	Connector Assy (13P)	VKP2320	17	UL Cover	See Contrast table(2)	
			18	Bonnet	See Contrast table(2)	
6	Flexible Cable	See Contrast table(2)	19	KUC label	VRW2063	_
7	Connector Assy (5P)	VKP2324	20	Caution Label	See Contrast table(2)	
8	Flexible Cable (15P)	VDA1991				
9	Adapter 2	VNL1967	21	Screw	BBZ30P060FNI	
10	Binder	VEC2414	22	Screw	BBZ30P080FNI	
			23	Screw	PPZ30P080FNI	
11	Tray Panel	See Contrast table(2)	24	Screw	BBZ30P100FNI	В
12	DVD A/V Badge	See Contrast table(2)				
NSP 13	Base Chassis	See Contrast table(2)				

(2) CONTRAST TABLE

DV-575A-S/KUXCN/CA, WYXCN, WVXCN and DV-575A-K/WYXCN are constructed the same except for the following:

9.						
Mark	No.	Symbol and Description	DV-575A-S/ KUXCN/CA	DV-575A-S/ WYXCN	DV-575A-S/ WVXCN	DV-575A-K/ WYXCN
	1	DVDM Assy	VWS1582	VWS1583	VWS1583	VWS1583
	2	JCKB Assy	VWV1994	VWV1995	VWV1995	VWV1995
<u> </u>	3	POWER SUPPLY Unit	VWR1376	VWR1377	VWR1377	VWR1377
	6	Flexible Cable (5P)	VDA1995	Not used	Not used	Not used
	6	Flexible Cable (17P)	Not used	VDA1994	VDA1994	VDA1994
	11	Tray Panel	VNK5411	VNK5411	VNK5411	VNK5413
	12	DVD A/V Badge	VAM1131	VAM1131	VAM1131	VAM1143
NSP	13	Base Chassis	VNA2703	VNA2693	VNA2693	VNA2693
	15	PCB Base	VNE2279	Not used	Not used	Not used
	16	Rear Sheet	VRW2060	VRW2072	VRW2072	VRW2078
	17	UL Cover	VNK5524	Not used	Not used	Not used
	18	Bonnet	VNA2677	VNA2677	VNA2677	VNA2678
	20	Caution Label	Not used	VRW1872	VRW1872	VRW1872

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3 2.3 EXTERIOR SECTION (for DV-578A-S) 20 NON-CONTACT SIDE Refer to "2.6 04 LOADER ASSY". 21 22 ² C 21 Refer to "2.5 FRONT PANEL SECTION".

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<u>Vlark</u> <u>l</u>	No.	<u>Description</u>	Part No.			
	1	DVDM Assy	VWS1582			
	2	JCKB Assy	VWV1994			
<u> </u>	3	POWER SUPPLY Unit	VWR1376			
NSP	4	04 LOADER Assy	VWT1210			
	5	Connector Assy (13P)	VKP2320			
	6	Flexible Cable (5P)	VDA1995			
	7	Connector Assy (5P)	VKP2324			
	8	Flexible Cable (15P)	VDA1991			
	9	Adapter 3L	VNL1962			
	10	Adapter 3R	VNL1963			
	11	Binder	VEC2414			
	12	Tray Panel	VNK5545			
	13	DVD A/V Badge	VAM1131			
NSP	14	Base Chassis	VNA2703			
	15	Rubber Foot	VEB1349			
	16	PCB Base	VNE2279			
	17	UL Cover	VNK5524			
	18	Rear Sheet	VRW2099			
	19	Bonnet	VNA2677			
	20	KUC label	VRW2063			
	21	Screw	BBZ30P060FNI			
	22	Screw	BBZ30P080FNI			
	23	Screw	PPZ30P080FNI			

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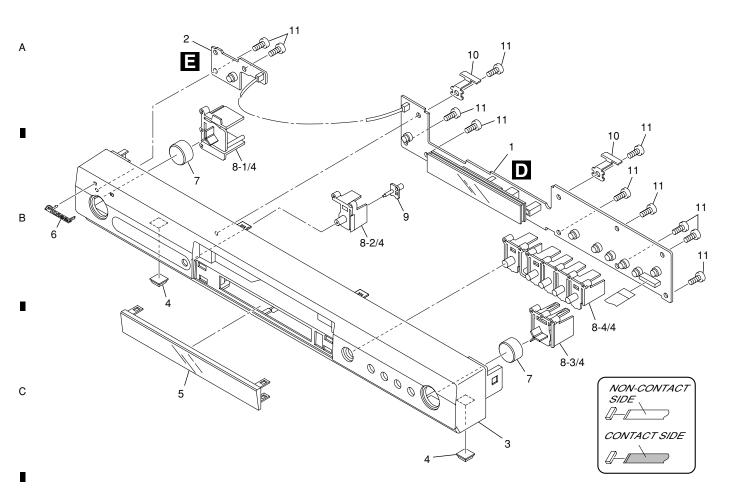
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2.4 FRONT PANEL SECTION (for DV-575A-S and DV-575A-K)



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FRONT PANEL SECTION parts List (for DV-575A-S and DV-575A-K)

Mark No.	Description	Part No.	Mark No.	<u>Description</u>	Part No.	
1	FLKY Assy	See Contrast table(2)	7	Key Top	See Contrast table(2)	
2	PWSB Assy	VWG2482	8	Main Key	See Contrast table(2)	Α
3	Front Panel	See Contrast table(2)	9	LED Lens	VNK5415	
4	Rubber Foot	VEB1349	10	FP Angle	VNE2332	
5	FL Lens	VNK5414				
			11	Screw	PPZ30P080FNI	
6	Pioneer Name Plate	See Contrast table(2)				_

(2) CONTRAST TABLE

DV-575A-S/KUXCN/CA, WYXCN, WVXCN and DV-575A-K/WYXCN are constructed the same except for the following:

Mark	No.	Symbol and Description	DV-575A-S/ KUXCN/CA	DV-575A-S/ WYXCN	DV-575A-S/ WVXCN	DV-575A-K/ WYXCN
	1	FLKY Assy	VWG2483	VWG2484	VWG2484	VWG2484
	3	Front Panel	VNK5528	VNK5529	VNK5529	VNK5536
	6	Pioneer Name Plate	VAM1129	VAM1129	VAM1129	VAM1130
	7	Key Top	VNK5407	VNK5410	VNK5410	VNK5409
	8	Main Kev	VNK5404	VNK5404	VNK5404	VNK5406

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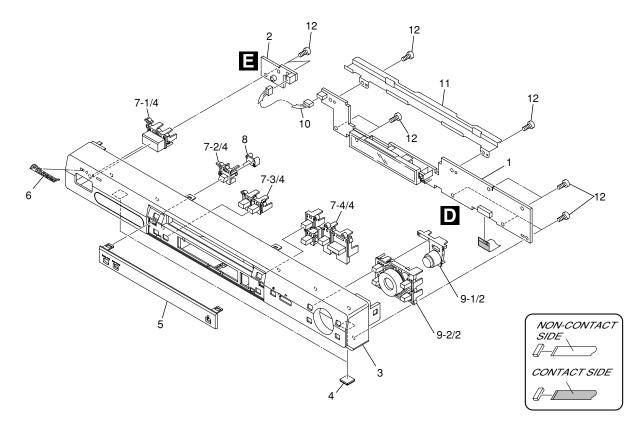
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2.5 FRONT PANEL SECTION (for DV-578A-S)



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FRONT PANE	L SECTION	parts List	(for DV-578)	A-S)

Mark No.	<u>Description</u>	Part No.
1	FLKY Assy	VWG2494
2	PWSB Assy	VWG2495
3	Front Panel	VNK5540
4	Rubber Foot	VEB1349
5	FL Lens	VNK5543
6	Pioneer Name Plate	VAM1129
7	Main Key	VNK5541
8	LED Lens	VNK5544
9	Menu Key	VNK5542
10	Connector Assy (3P)	VKP2305
NSP 11	FP Angle	VNE2307
12	Screw	PPZ30P080FNI

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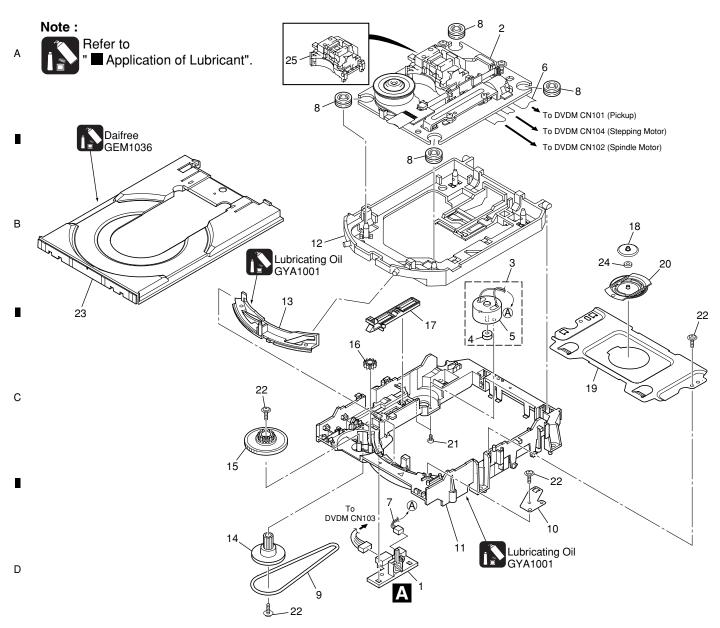
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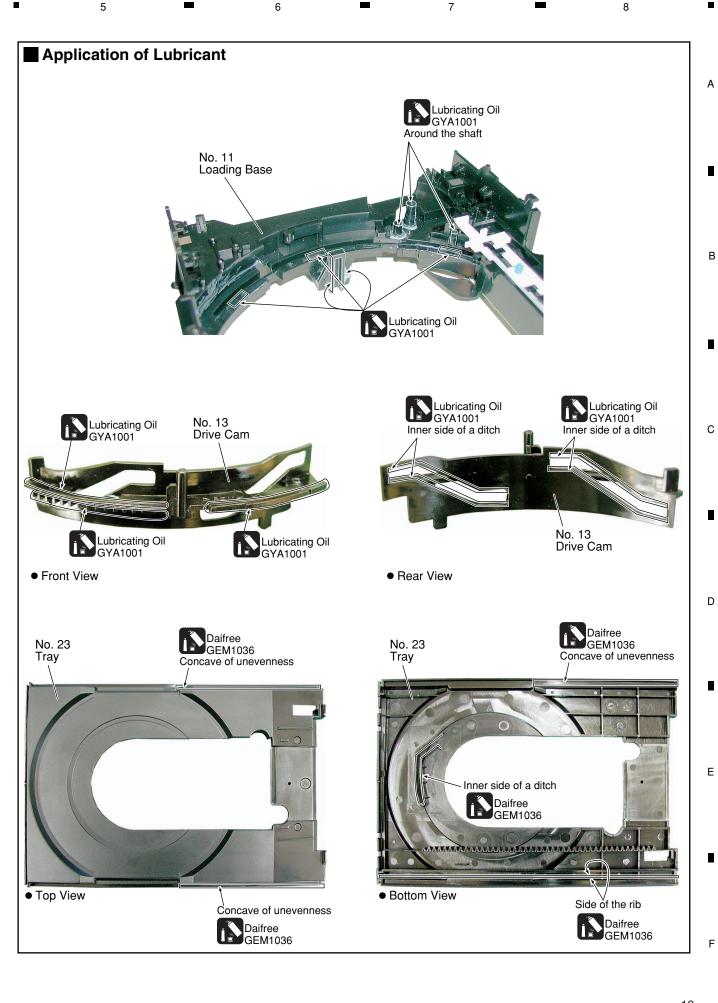
2.6 04 LOADER ASSY



04 LOADER ASSY parts List

	Mark No.	Description	Part No.	Mark No.	Description	Part No.
	NSP 1	LOAB Assy	VWG2346	16	Drive Gear	VNL1923
	2	Traverse Mecha. Assy-S	DXX2536	17	SW Lever	VNL1925
	3	Loading Motor Assy	VXX2912	18	Clamper Plate 04	VNE2342
	4	Motor Pulley	PNW1634	19	Bridge 04	VNE2343
E	NSP 5	Motor	VXM1107	20	Clamper 04	VNL1969
	6	Flexible Cable (24P)	VDA1990	21	Screw	JGZ17P028FNI
•	7	Connector Assy 2P	VKP2325	22	Screw	VBA1093
	8	Floating Rubber	VEB1351	23	Tray	VNL1920
	9	Belt	VEB1358	24	Clamp Magnet	VMG1029
	10	Stabilizer	VNE2253	25	03 SD Pickup Assy-S	OXX8005
	11	Loading Base	VNL1917			
F	12	Float Base 04	VNL1968			
	13	Drive Cam	VNL1919			
	14	Gear Pulley	VNL1921			
	15	Loading Gear	VNL1922			

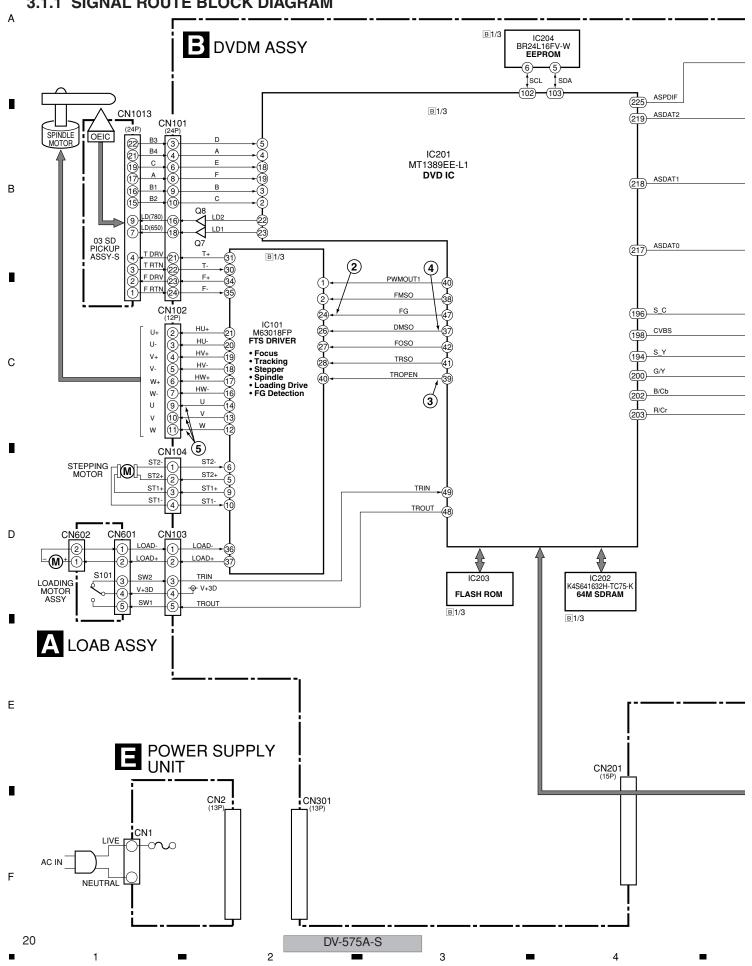
18

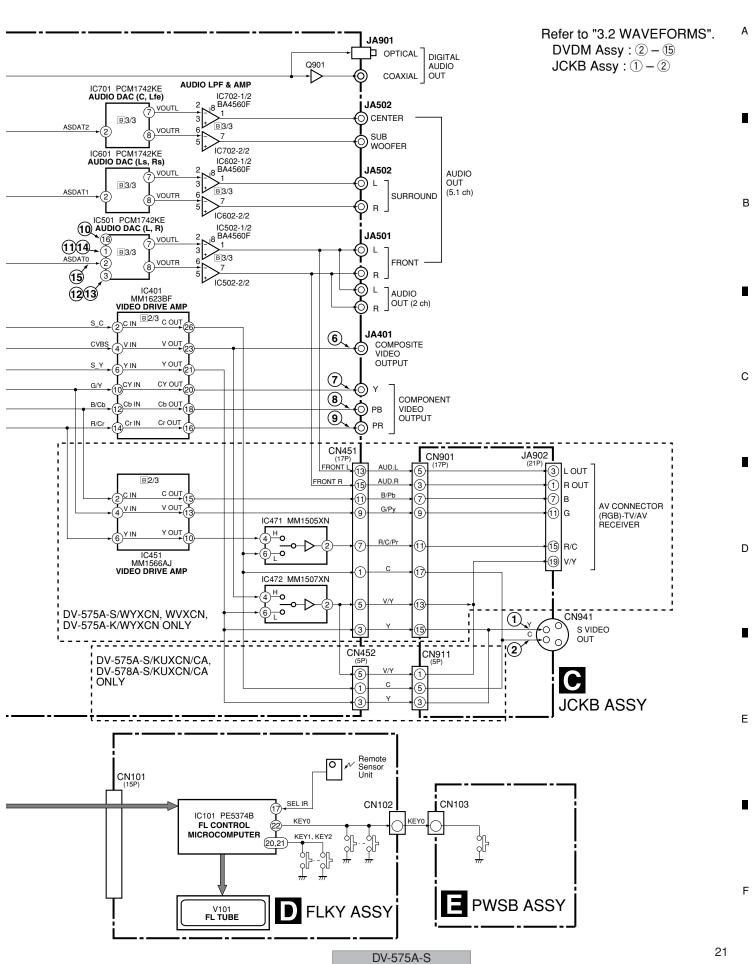


3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM

3.1.1 SIGNAL ROUTE BLOCK DIAGRAM





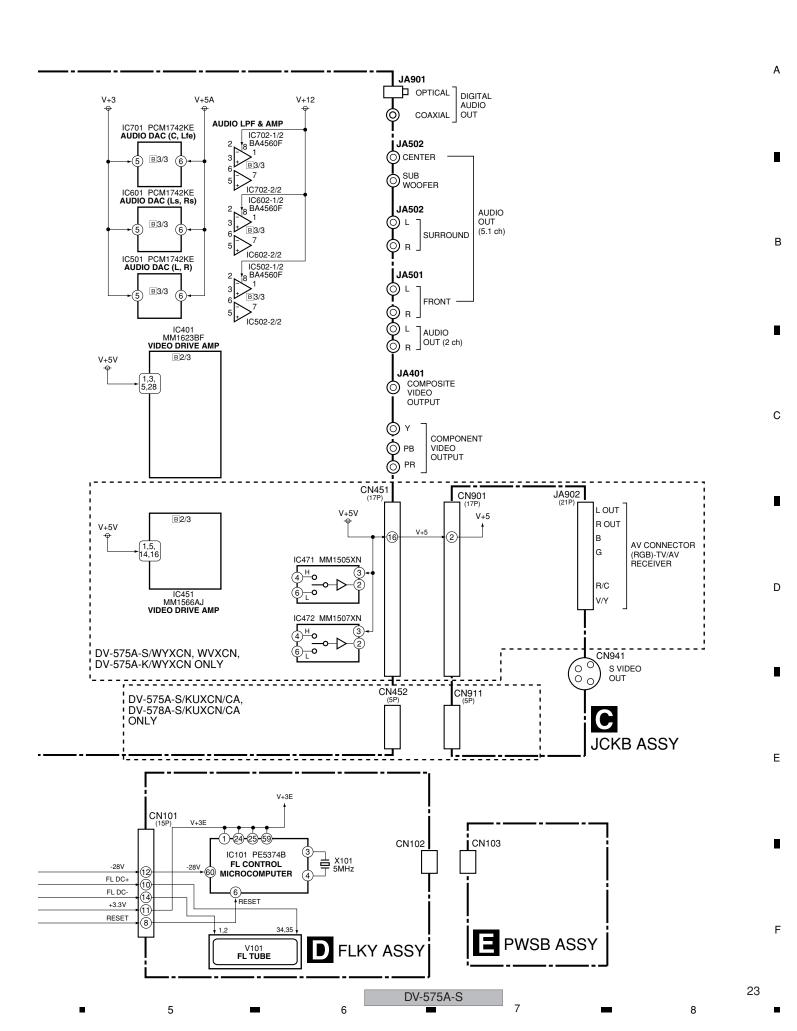
Α

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3.2 WAVEFORMS

Note: The encircled numbers denote measuring point in the schematic diagram.

B DVDM ASSY

Measurement condition;

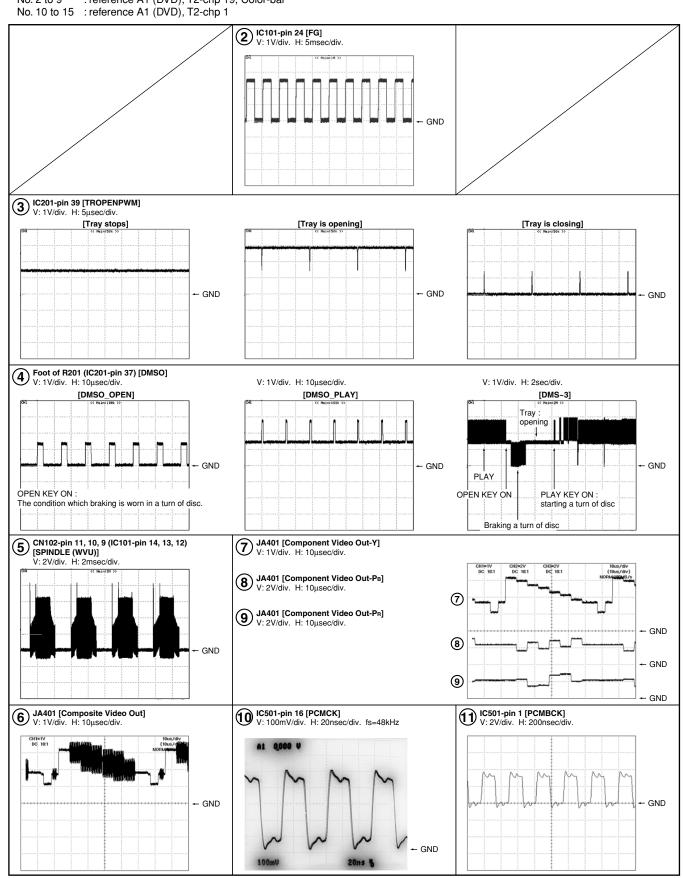
В

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No. 2 to 9 : reference A1 (DVD), T2-chp 19, Color-bar



3

24

F

•

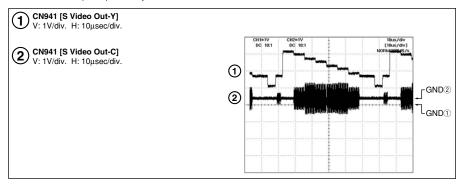
DV-575A-S

7

C JCKB ASSY

Measurement condition : reference A1 (DVD), T2-chp 19, Color-bar

5



25

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В

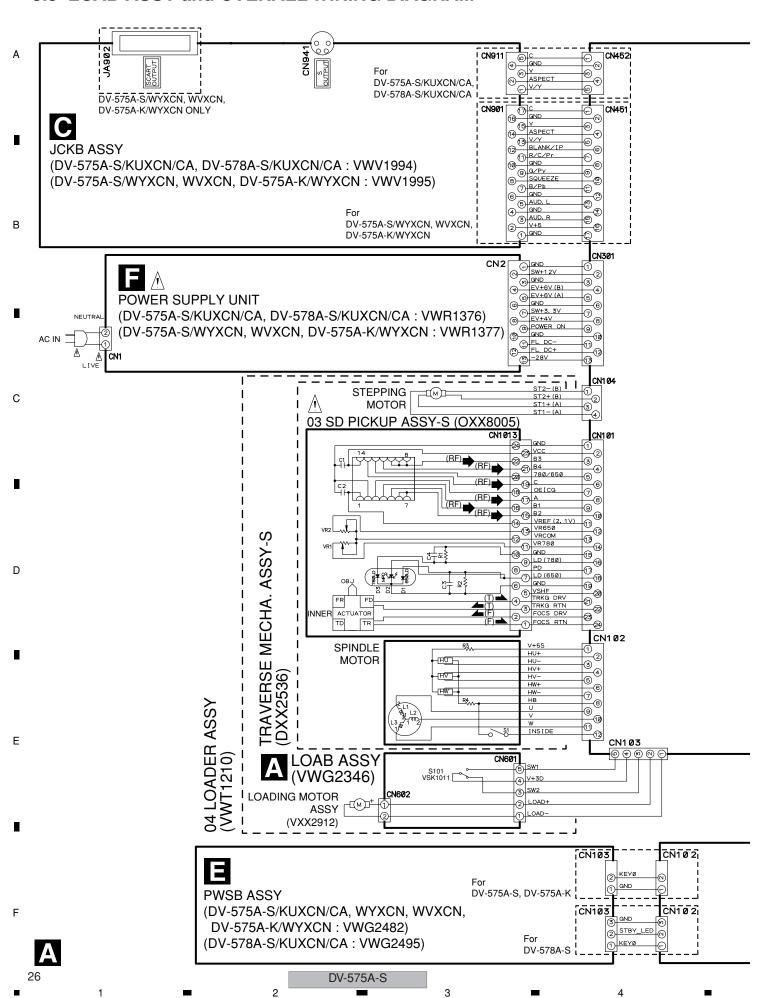
С

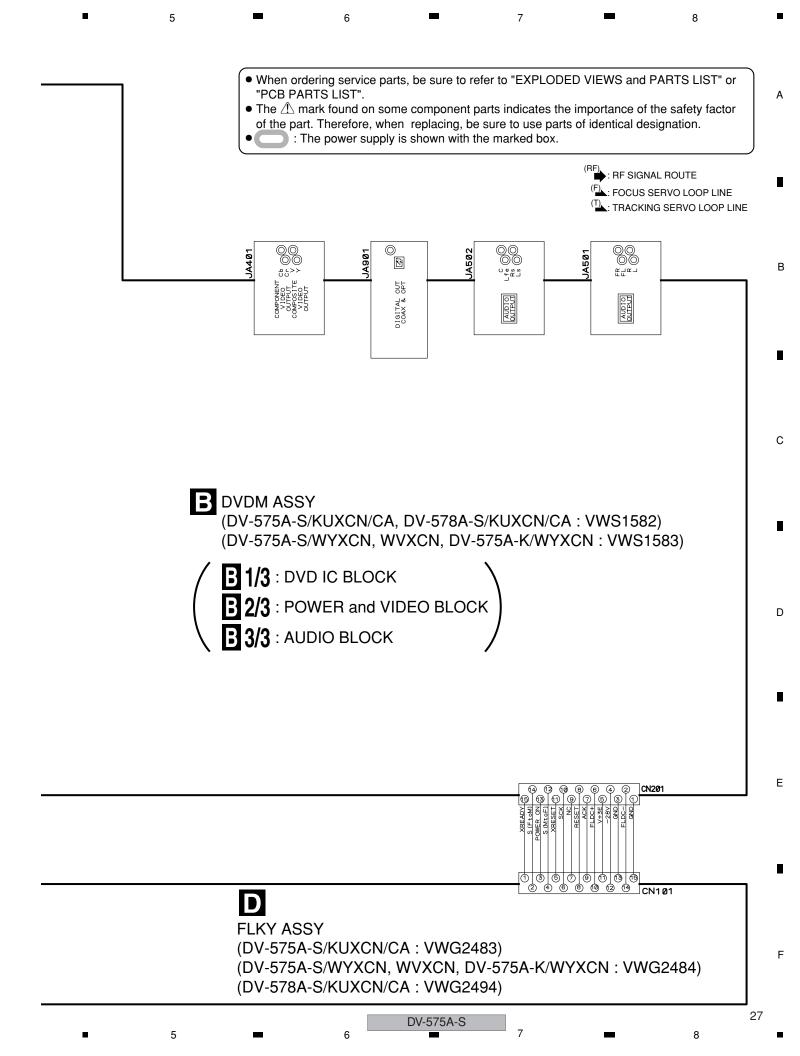
D

Е

F

3.3 LOAB ASSY and OVERALL WIRING DIAGRAM



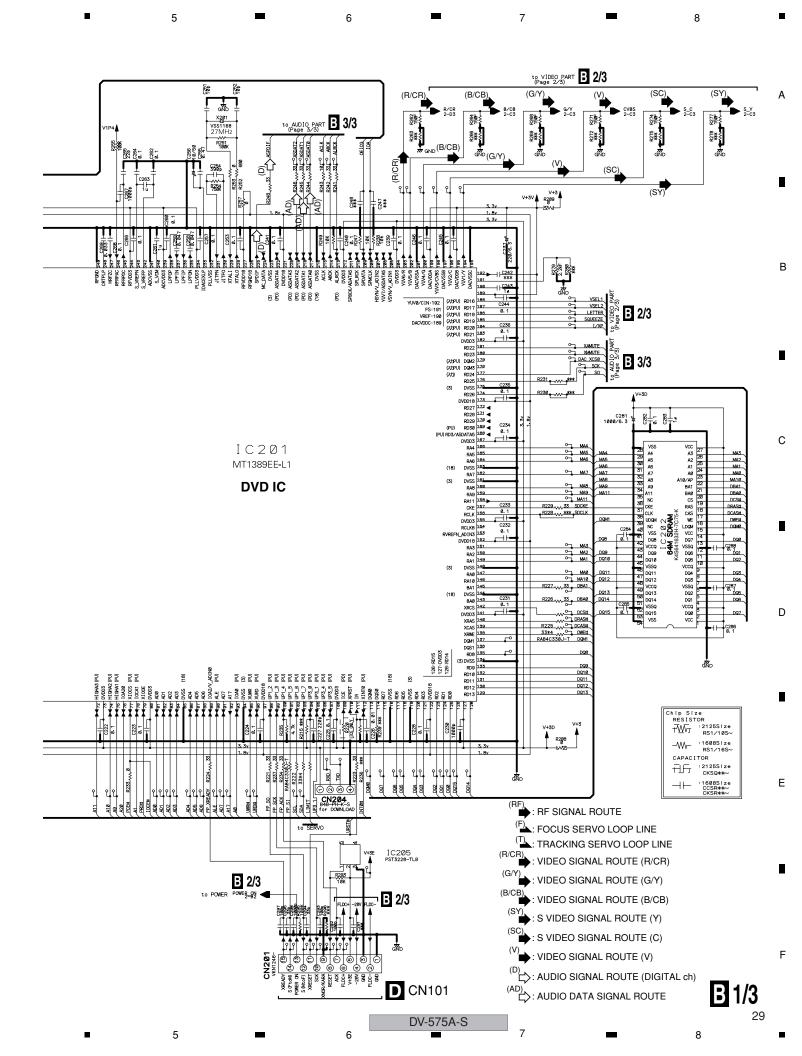


3.4 DVDM ASSY (1/3)

28

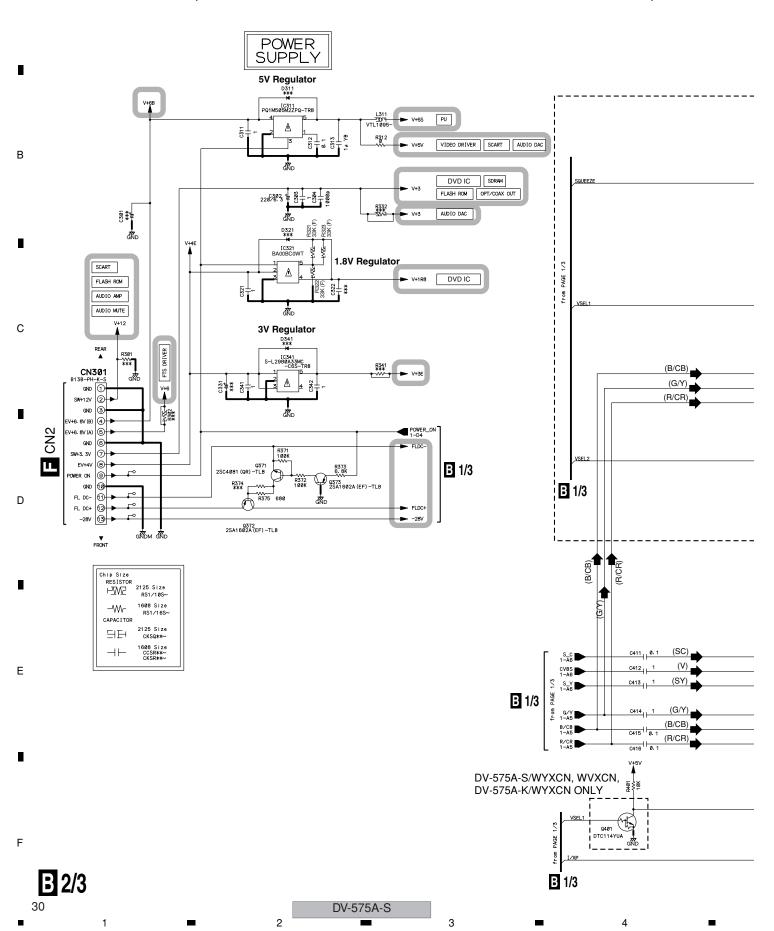
B 1/3 DVDM ASSY (DV-575A-S/KUXCN/CA, DV-578A-S/KUXCN/CA: VWS1582) (DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN: VWS1583) REAR A CN1 01 VKN1464 CN1013 ¢(6)► (RF) ASSY-S LD Driver for CD ¥¥; F(2.1V) 10 4 1 VR65Ø 12 -VRC0M (3 → VR78Ø (4 ◆ **PICKUP** LD (780) 16 ₩. PD (7) > *** SD (T) (T) (F) TRKG DRV 20 ◀ TRKG RTN 2 FOCS RTN 2 LD Driver for DVD CN1 02 VKN1 243 R36 10K TROPE SPINDLE MOTOR R38 -/// 10K £#\$ 25#36 |⊕**|•** 4 MOW 252 25 C152 **⊕ ← ③ →** HU-Focus, Tracking, [<u>2</u>] ← HUH R204₀₀₀10k R205₀₀₀18k Stepping, Spindle 25 C124 1888p and Loading Driver V1P4 CN1 03 452.5 688.5 588.5 588.5 EPPING MOTOR A CN601 TROUT TRIN STBY ENDM MU2 MU2 MU2 SPIC MEFS SW2 V+3D 01 M63018FP-TBB FTS DRIVER R115 4.7 R116 4.7 R117 4.7 R118 4.7 R120 4.7 5 # # 85 5 # # 85 F CN1 04 VKN1 235 ST2-T2- (B) ① ST2+ C219 1500p ST1+ (A) (3) -ST1+ R30 10K V1P4 9# ### ### R28 1 ØK R218 R219 COSH AIR R222.w.9 | Market R22 VCC WP IC204 NC SCLEEPROM NC SDA GND Ε ¥882 ₩ **B** 1/3 \ \DV-575A-S/KUXCN/CA, DV-578A-S/KUXCN/CA: VYW2202 DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN: VYW2164

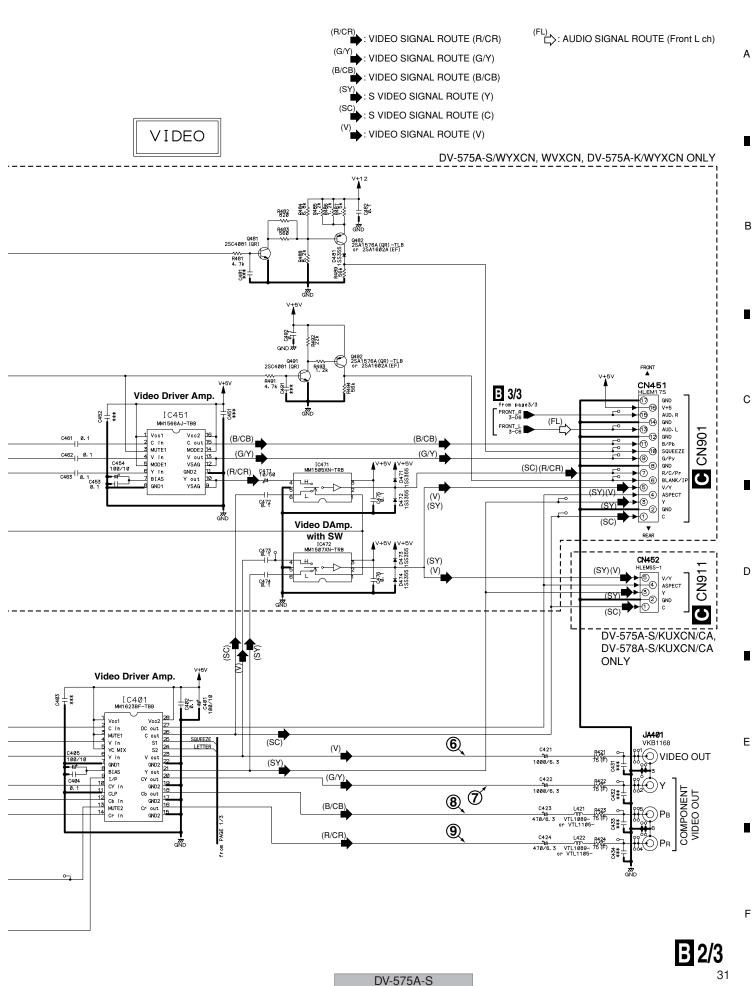
DV-575A-S



3.5 DVDM ASSY (2/3)

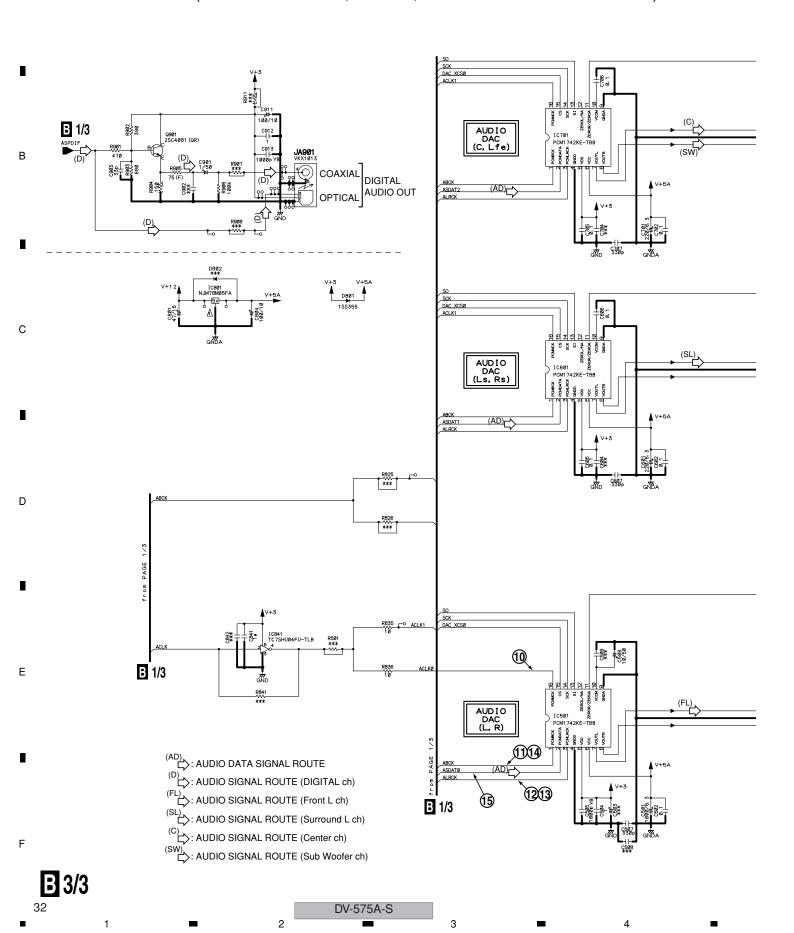
B 2/3 DVDM ASSY (DV-575A-S/KUXCN/CA, DV-578A-S/KUXCN/CA: VWS1582) (DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN: VWS1583)

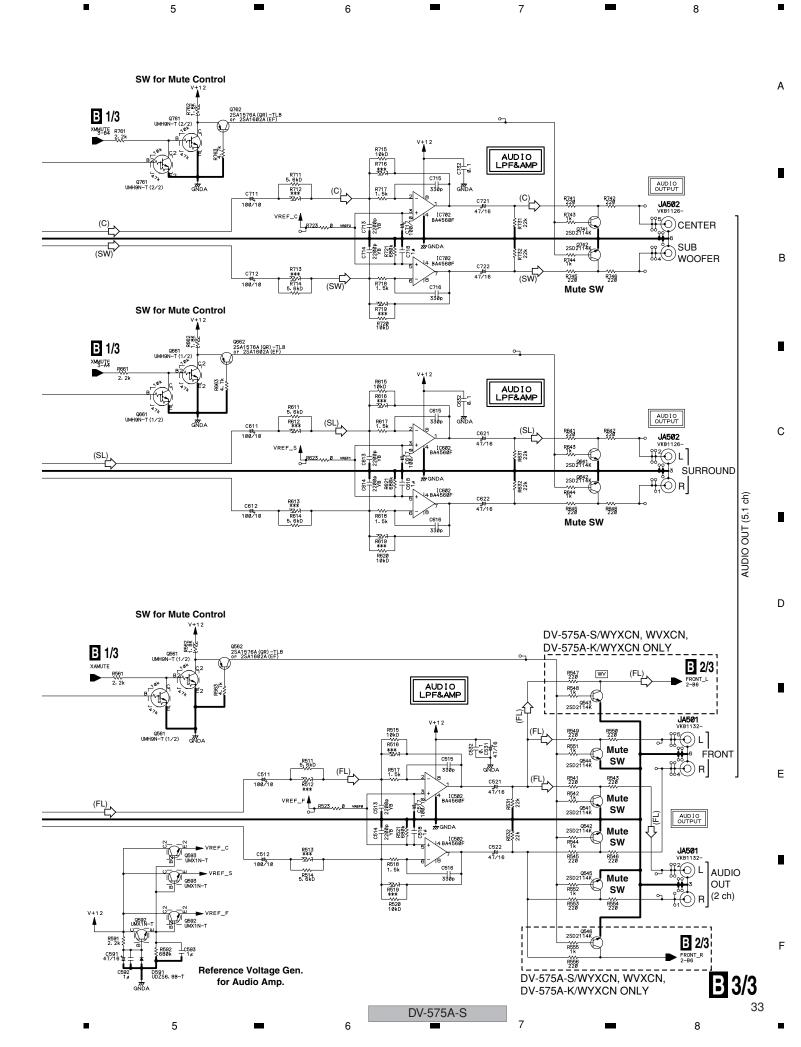




3.6 DVDM ASSY (3/3)

B 3/3 DVDM ASSY (DV-575A-S/KUXCN/CA, DV-578A-S/KUXCN/CA: VWS1582) (DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN: VWS1583)

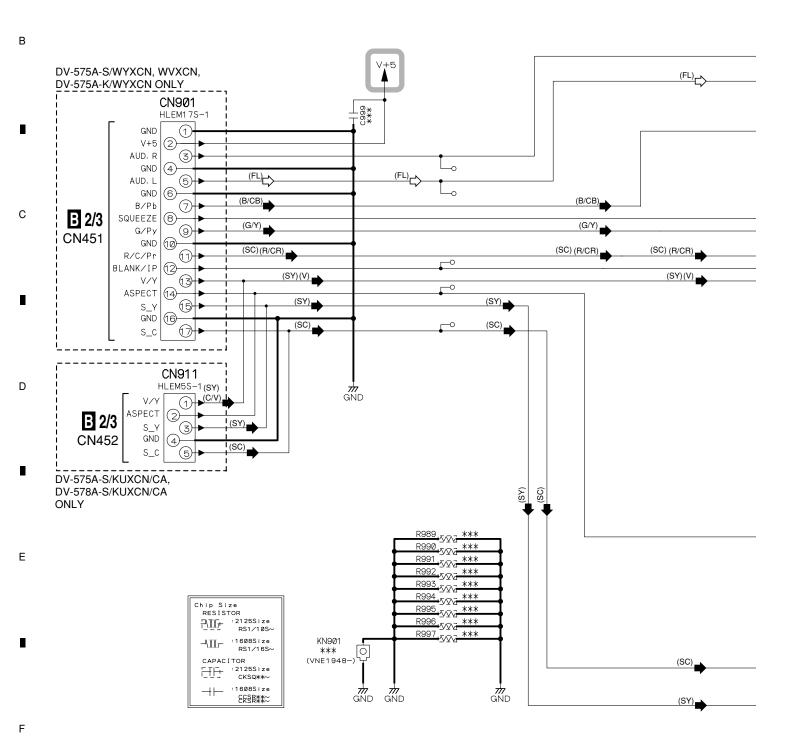


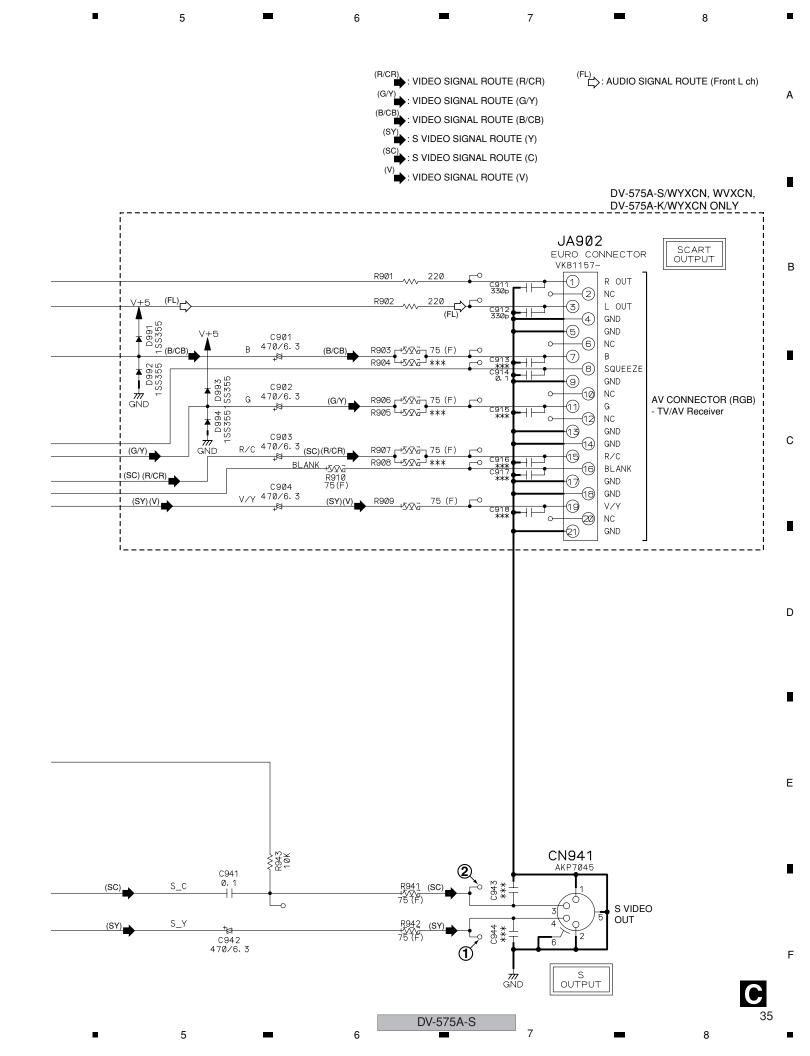


3.7 JCKB ASSY

C JCKB ASSY (DV-575A-S/KUXCN/CA, DV-578A-S/KUXCN/CA: VWV1994) (DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN: VWV1995)

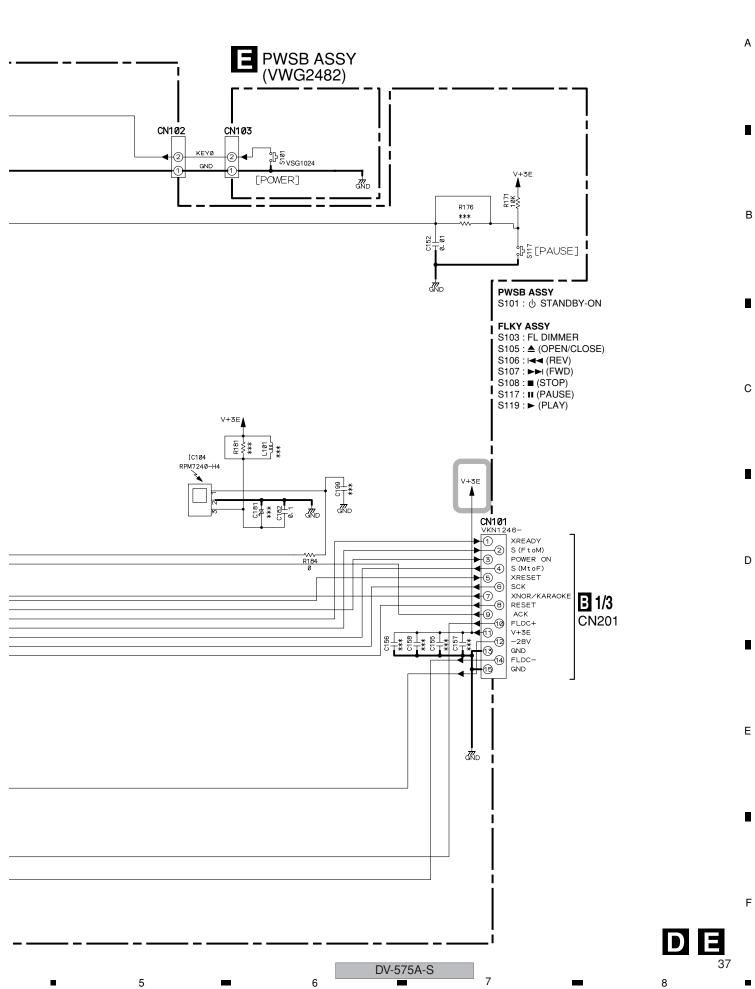
3





3.8 FLKY and PWSB ASSYS (for DV-575A-S and DV-575A-K)

D FLKY ASSY (DV-575A-S/KUXCN/CA: VWG2483) (DV-575A-S/WYXCN, WVXCN, DV-575A-K/WYXCN: VWG2484) V+3E▲ ₹ 22 24 27 24 27 27 R177 KEY0 R160 1. 2k ₹ \$ \$ \$ \$ [PLAY] [>>] [FL DIM] [<<] S103, S105-S108, S117, S119: VSG1024 GND KEY1 В KUXCN/CA V+3E WYXCN, WVXCN ONLY ONLY R185 74 89 19k R178 KEY2 KUXCN/CA [EJECT] [STOP] WYXCN, WVXCN ONLY С 84 ** ** ₹ ₹ ₹ 1 V+3E V+3E▲ \exists R134 270 SEL IR M R123 *** 46 LEDØ 47 TEST1 1394POWER ON N RESERVE OUT RESET OUT TESTØ 49 1 394RST 50 NC 51 P16 C184 *** POWER ON XREADY PE5374B P15 M R128 47 so M R129 0 CONTROL NC 53 NC 54 P14 P13 L MI CROCOMPUTER_ N R130 0 SCK RESET IN P12 *5128 56 57 橪 P10 1 VDD GND C183 25 * 25 * 85 * 85 * 1 * 85 * 都 都 0.1 VAW1078-36 DV-575A-S



6

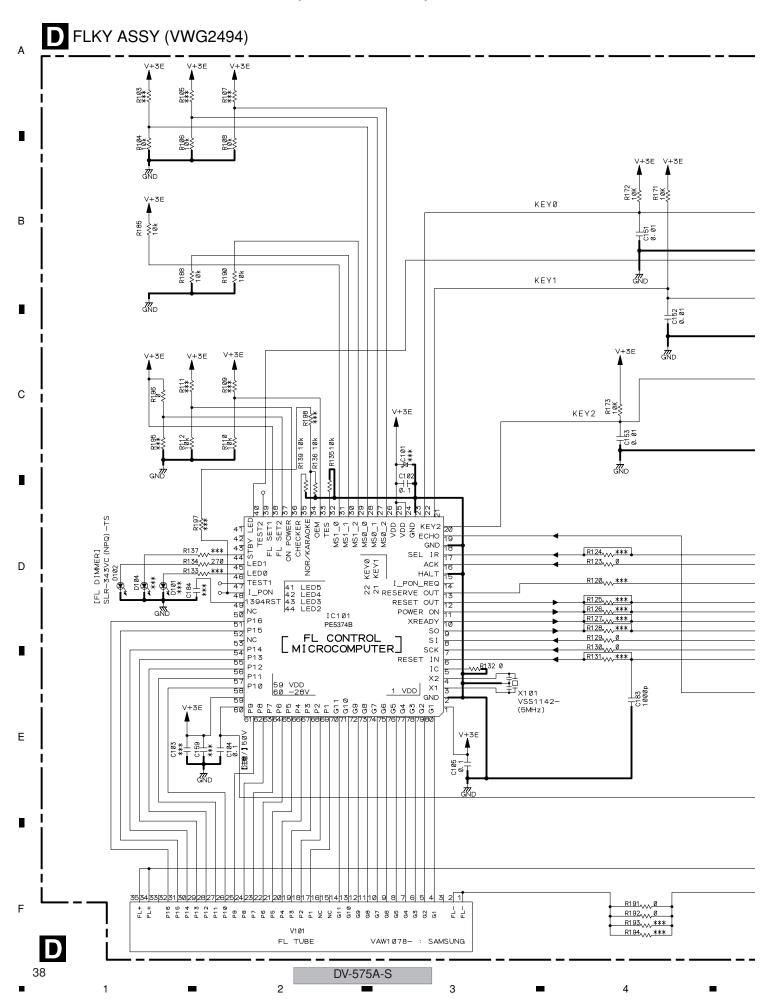
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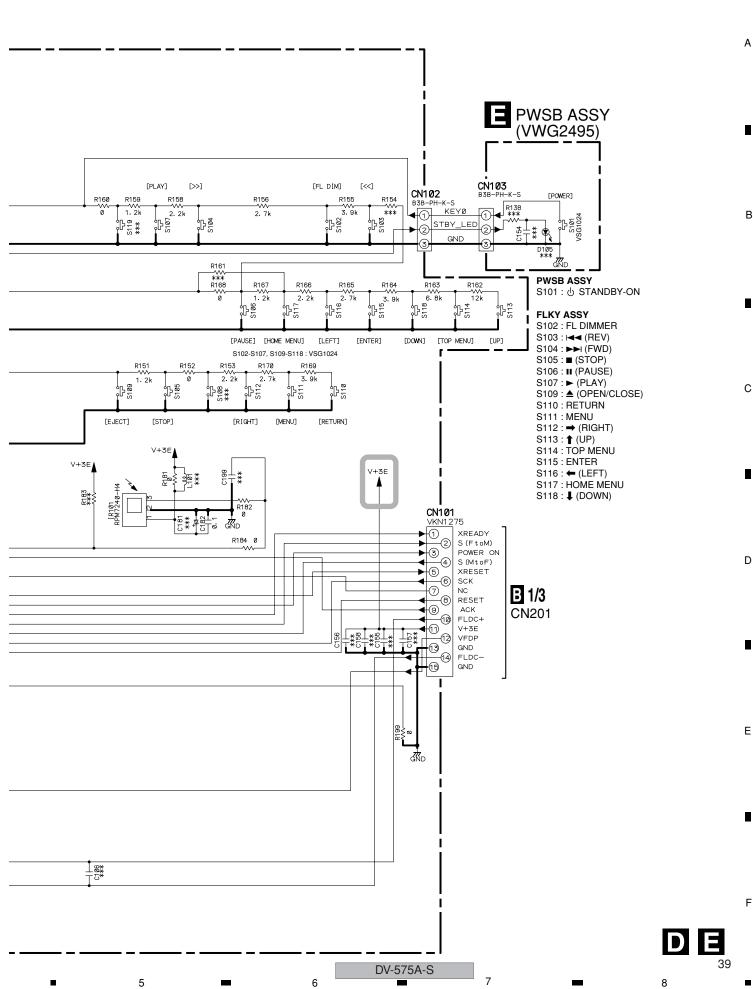
8

В

D

3.9 FLKY and PWSB ASSYS (for DV-578A-S)





5

В

D

Α

В

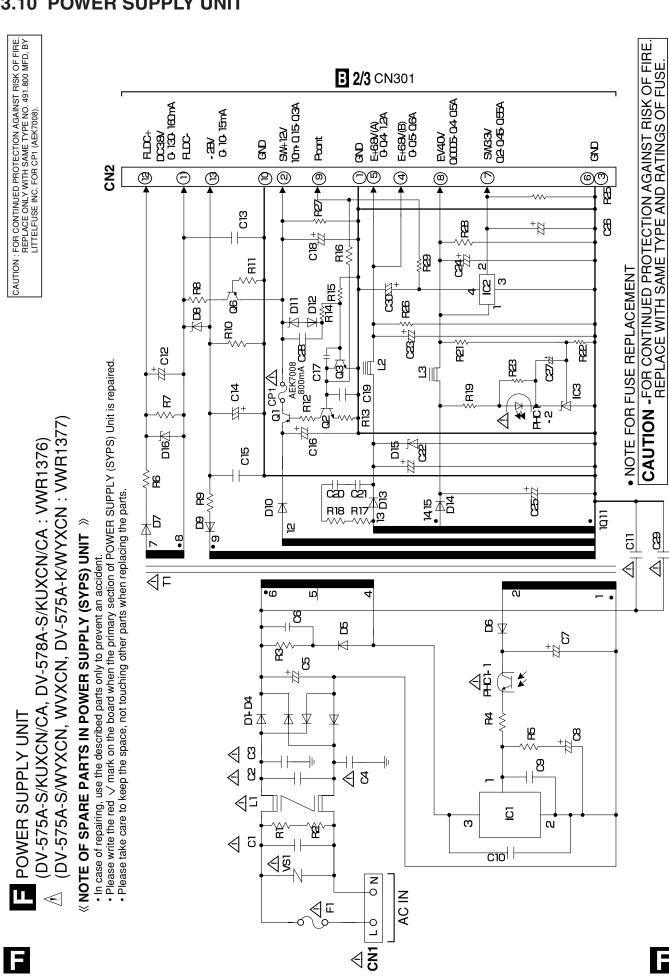
С

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DV-575A-S

2

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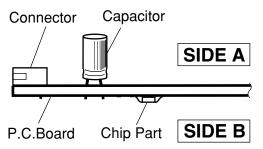
4. PCB CONNECTION DIAGRAM 4.1 LOAB ASSY

NOTE FOR PCB DIAGRAMS:

- 1. Part numbers in PCB diagrams match those in the schematic diagrams.
- 2. A comparison between the main parts of PCB and schematic diagrams is shown below.

Symbol In PCB Diagrams	Symbol In Schematic Diagrams	Part Name
(0 0 0 B C E		Transistor
● <u>© ⊙ ⊙</u> B C E	B OF THE PROPERTY OF THE PROPE	Transistor with resistor
© 0 0 D G S		Field effect transistor
@00 <u>%000</u> X	***************************************	Resistor array
000		3-terminal regulator

- 3. The parts mounted on this PCB include all necessary parts for several destinations.
- For further information for respective destinations, be sure to check with the schematic diagram.
- 4. View point of PCB diagrams.



SIDE A



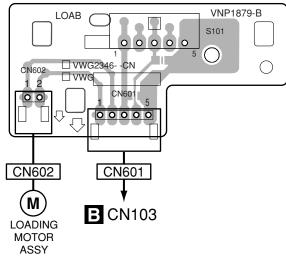
В

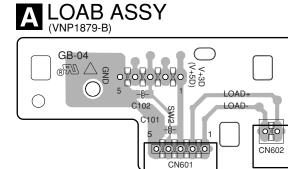
С

D

Ε



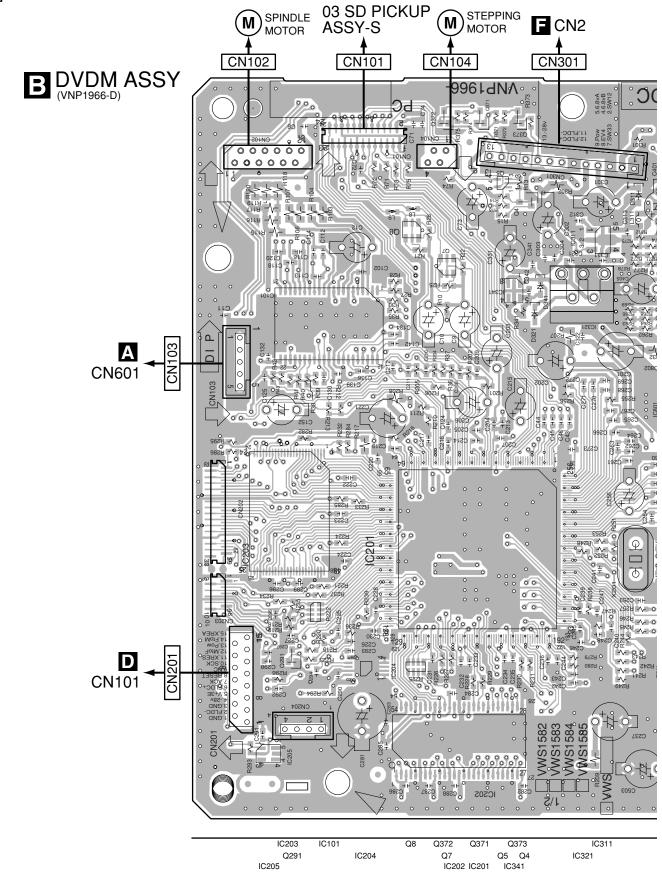


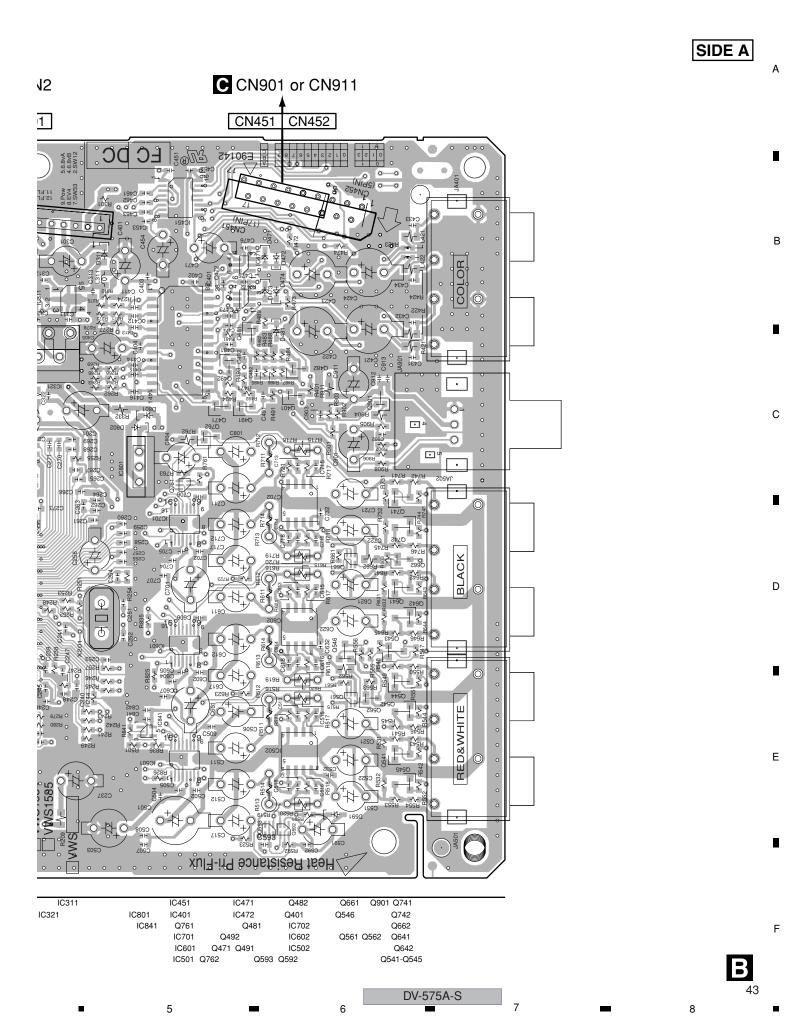


CN601 CN602

5

DV-575A-S





SIDE B

CN451 CN452 CN301 CN104 OP/40 POPAC OB/40 OP/40

SIDE B

5

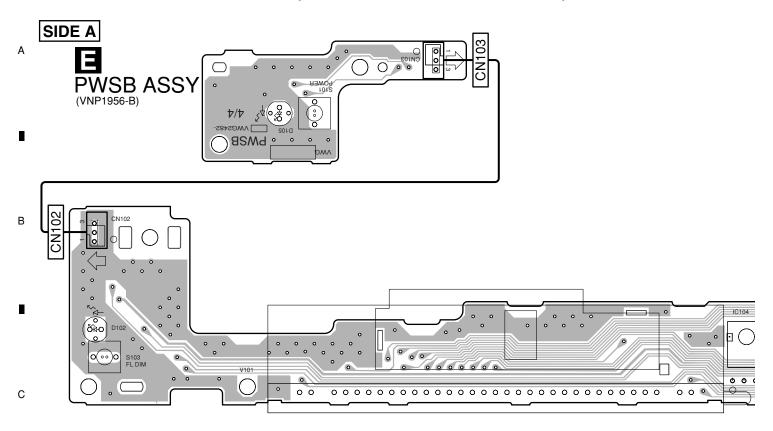
В

С

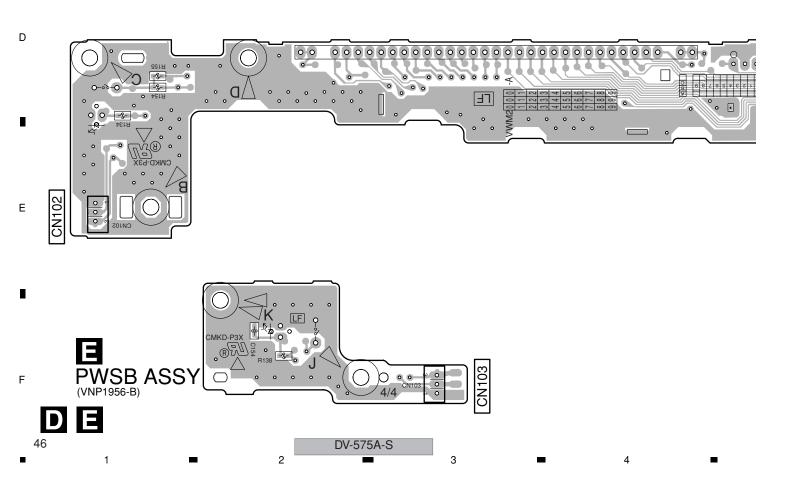
D

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4.3 FLKY and PWSB ASSYS (for DV-575A-S and DV-575A-K)

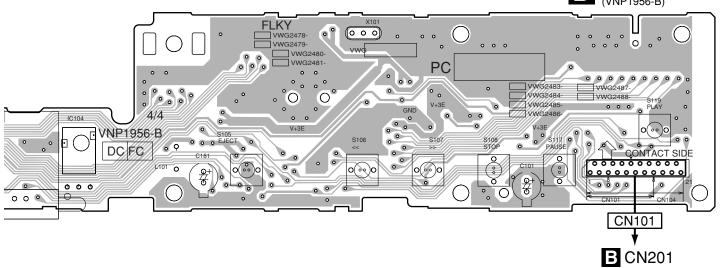


SIDE B



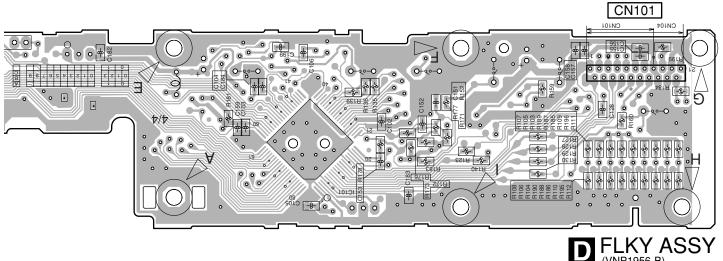
SIDE A

FLKY ASSY



5

SIDE B



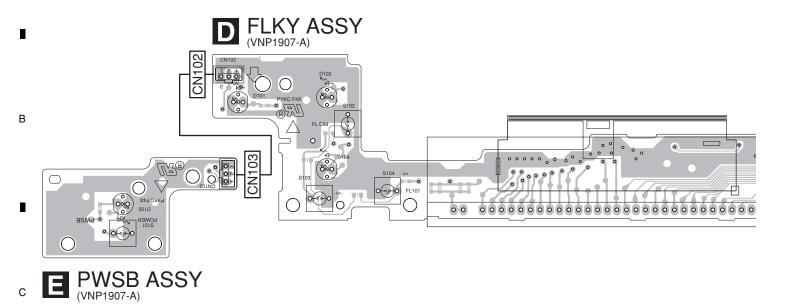
FLKY ASSY (VNP1956-B)

DV-575A-S

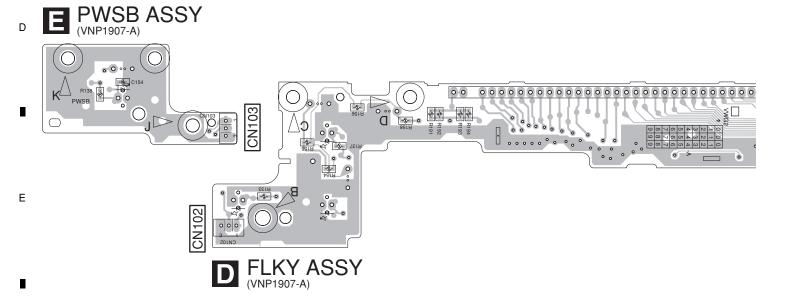
Е

4.4 FLKY and PWSB ASSYS (for DV-578A-S)

SIDE A



SIDE B





DV-575A-S

3

4

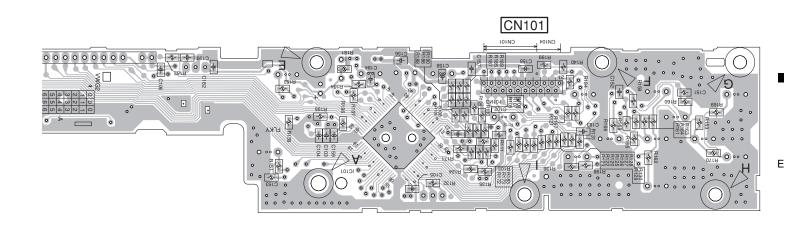
SIDE A

SIDE O PC WWG STISE LEFT STISS ENTER RIGHT OF O STISE LEFT STISS ENTER RIG

SIDE B

С

D



D

DV-575A-S

7 -

В

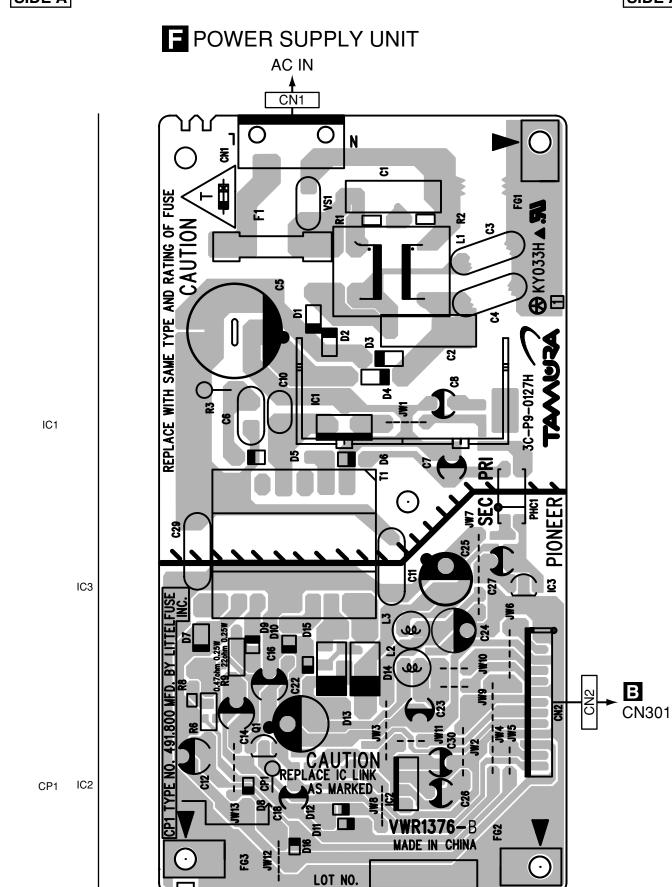
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SIDE A SIDE A

3



DV-575A-S

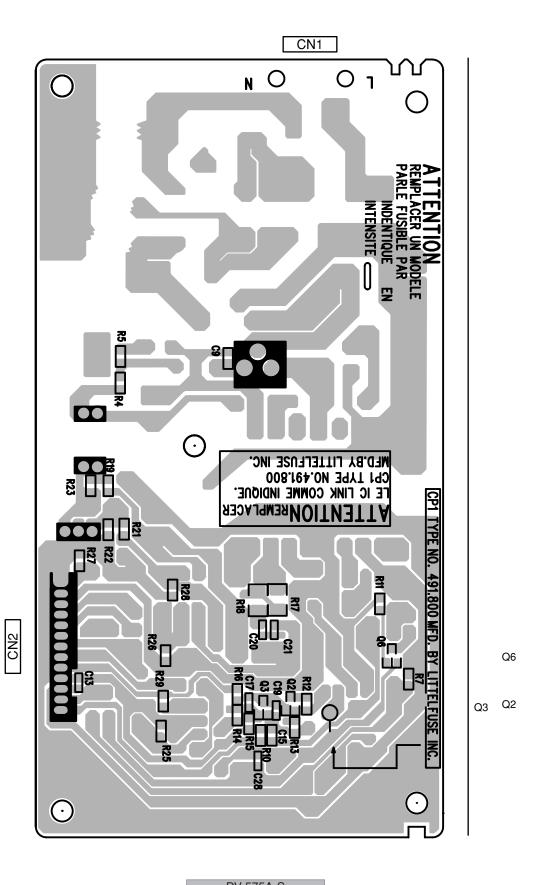
3

SIDE B SIDE B

7

F POWER SUPPLY UNIT

5



5

51

В

С

D

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DV-575A-S

SIDE A

SIDE A F POWER SUPPLY UNIT AC IN CN1 N 동 ಬ REPLACE WITH SAME TYPE AND RATING OF FUSE 2 2 දි 3C-P9-0129H

3

IC3

IC1

В

С

CP1 IC2

Ε

CAUTION REPLACE IC LINK AS MARKED \odot LOT NO.

2

B CN301

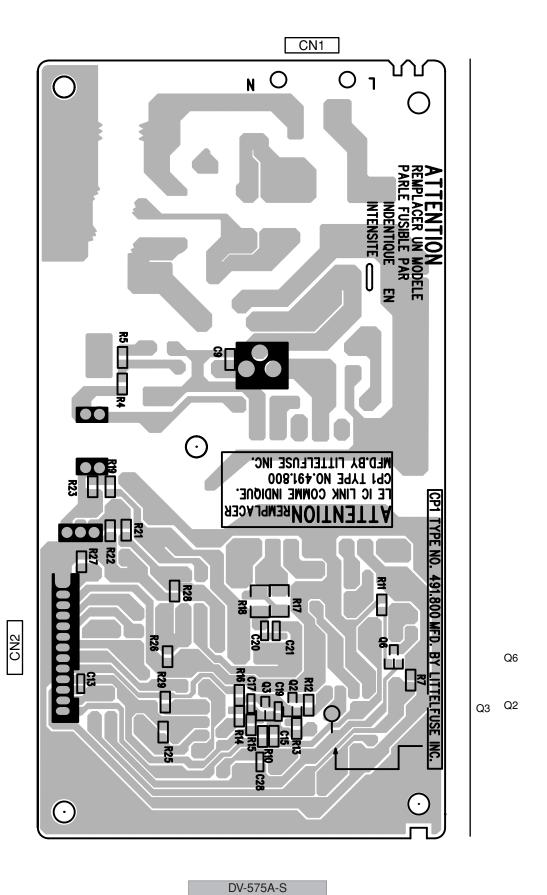
DV-575A-S

SIDE B SIDE B

7

F POWER SUPPLY UNIT

5



5

53

8

В

С

D

Е

4.7 JCKB ASSY

В

С

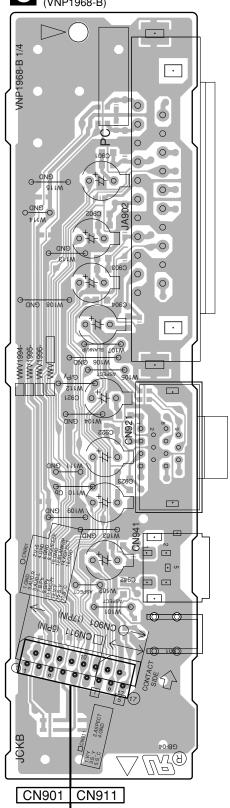
D

Ε

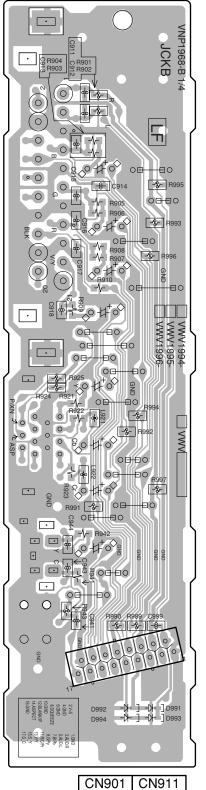
SIDE A SIDE B

3

C JCKB ASSY



C JCKB ASSY



B CN451 or CN452

C

C

5

NOTES: • Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

• The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

• When ordering resistors, first convert resistance values into code form as shown in the following examples. Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J=5%, and K=10%).

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

 $5.62k \Omega \rightarrow 562 \times 10^{1} \rightarrow 5621 \dots RN1/4PC 562 IF$

	$5.62k\Omega \rightarrow 5$	62 X 10 ¹ → 3621 ··········		RN1/4PC <u>5 6 2</u>][<i>I</i>] <i>F</i>	
	No. Description Γ OF ASSEMBLIES	Part No.	Mark No.	Description	Part No.	В
	75A-S/KUXCN/CA]		A LOAD	ACCV IV/MCOO	461	
	104 LOADER ASSY	VWT1210		ASSY [VWG23	46]	
NSP	2LOAB ASSY	VWG2346		AND RELAYS		
			S101		VSK1011	
	1DVDM ASSY	VWS1582				Ī
			<u>OTHERS</u>			-
	1JCKB ASSY	VWV1994		CONNECTOR	S2B-PH-K	
	. 5145 4004	\		CONNECTOR BOARD LOAB	S5B-PH-K	
NSP	1FLKB ASSY	VWM2247	PC	DOARD LOAD	VNP1879	
	2FLKY ASSY 2PWSB ASSY	VWG2483 VWG2482				
	2FW3B A331	VVVG2482	D			С
<u> </u>	1POWER SUPPLY UNIT	VWR1376	B DVDM	ASSY [VWS15	82]	
	6112116611216111		SEMICONDU			
			<u> </u>		BA00BC0WT	
[DV-57	75A-S/WYXCN, WVXCN, DV-575A	-K/WYXCN]	IC502,IC602,I	IC702	BA4560F	
	104 LOADER ASSY	VWT1210	IC204		BR24L16FV-W	
NSP	2LOAB ASSY	VWG2346	IC202		K4S641632H-TC75	
	4 DVD14 400V	\#\\\O4500	IC101		M63018FP	
	1DVDM ASSY	VWS1583	10404		MM4COODE	
	1JCKB ASSY	VWV1995	IC401 IC201		MM1623BF MT1389EE-L1	
	100ND A001	VVV 1993	⚠ IC801		NJM78M05FA	
NSP	1FLKB ASSYV	WM2248	IC501,IC601,	IC701	PCM1742KE	
	2FLKY ASSY	VWG2484	⚠ IC311		PQ1M505M2SPQ	D
	2PWSB ASSY	VWG2482				
			IC205		PST3228	
<u> </u>	1POWER SUPPLY UNIT	VWR1377	⚠ IC341		S-L2980A33MC-C6S	
			IC841		TC7SHU04FU	
[DV 5	70.4 C/KUYON/O.4.1		IC203	7700	VYW2202	_
-	78A-S/KUXCN/CA] 104 LOADER ASSY	VWT1210	Q562,Q662,C	2/62	2SA1576A	
NSP	2LOAB ASSY	VWG2346	Q372,Q373		2SA1602A	
1101	ZLONB NOOT	V V G 2040	Q371,Q4,Q90	11	2SC4081	
	1DVDM ASSY	VWS1582	Q541,Q542,C		2SD2114K	
			Q641,Q642,C	-	2SD2114K	
	1JCKB ASSY	VWV1994	Q7,Q8		HN1A01F	Е
						_
NSP	1FLKB ASSY	VWM2260	Q592,Q593		HN1C01FU	
	2FLKY ASSY	VWG2494	Q5	7704	UM5K1N	
	2PWSB ASSY	VWG2495	Q561,Q661,C	2/61	UMH9N	
\triangle	1POWER SUPPLY UNIT	VWR1376	D801 D591		1SS355 UDZS6.8B	
ن	I OWLITOOI FLI OINII	V VVIII 10/0	ופטע		UDZ30.0D	
			COILS AND	FIITERS		
			L421,L422 C		VTL1089	
			L311 CHIP E		VTL1009 VTL1095	
			_0 0	-		
			CAPACITORS	<u>s</u>		
			C292,C293,C		CCSRCH101J50	F

C265

DV-575A-S

C142,C227

C294,C295,C903

55

CCSRCH220J50

CCSRCH221J50

CCSRCH330J50

	1 -	2	■ 3 ■	4
<u>I</u>	Mark No. Description	Part No.	Mark No. Description	Part No.
	C507,C515,C516,C607	CCSRCH331J50	R115-R120 R421-R424	RS1/10S4R7J RS1/10S75R0F
	C615,C616,C707,C715,C716	CCSRCH331J50	R262,R264,R268,R271,R274	RS1/16S1500F
Α	C254	CCSRCH391J50	R277	RS1/16S1500F
	C211,C212	CCSRCH561J50	R279	RS1/16S2201F
	C251 C252	CCSRCH8R0D50 CCSRCH9R0D50	R321-R323	RS1/16S3302F
	G232	CCShCH9h0D50	R905	RS1/16S75R0F
	C256.C506	CEAT100M50	Other Resistors	RS1/16S###J
_	C401,C405,C511,C512,C517	CEAT101M10	Cities ricoloters	1101/100/////
	C611,C612,C617,C711,C712	CEAT101M10	OTHERS	
	C717,C804,C911	CEAT101M10	CN301 KR CONNECTOR	B13B-PH-K
	C281,C421,C422,C501	CEAT102M6R3	CN103 KR CONNECTOR	B5B-PH-K
			CN452 FFC CONNECTOR 5P	HLEM5S-1
	C901	CEAT1R0M50	JA502 4P PIN JACK	VKB1126
-	C201,C202,C237,C302,C601	CEAT221M6R3	JA501 4P PIN JACK	VKB1132
В	C701,C73	CEAT221M6R3		
	C10,C203,C206,C215	CEAT470M16	JA401 4P PIN JACK	VKB1168
	C521,C522,C531,C591	CEAT470M16	CN104 4P FFC CONNECTOR	VKN1235
	C621,C622,C721,C722,C801	CEAT470M16	CN102 12P FFC CONNECTOR	VKN1243
	C9	CEAT470M16	CN201 15P FFC CONNECTOR CN101 24P FFC CONNECTOR	VKN1246 VKN1464
_	C423,C424	CEAT471M6R3	CNTOT 24F FFC CONNECTOR	VKIN1404
	C11,C124,C230,C267,C296	CKSRYB102K50	JA901 JACK	VKX1013
	C298,C304,C505,C913	CKSRYB102K50	X201 CRYSTAL RESONATOR	VSS1168
			(27MHz)	
	C130,C134,C136,C226	CKSRYB103K50	, ,	
	C313,C606,C706	CKSRYB105K10		
_	C219	CKSRYB152K50	B DVDM ACCV (V/WC16	.001
С	C209	CKSRYB153K25	DVDM ASSY [VWS15	003]
	C112-C114,C513,C514	CKSRYB222K50	<u>SEMICONDUCTORS</u>	
	C613,C614,C713,C714	CKSRYB222K50	⚠ IC321	BA00BC0WT
	C269	CKSRYB333K16	IC502,IC602,IC702	BA4560F
	C208,C210	CKSRYB472K50	IC204 IC202	BR24L16FV-W K4S641632H-TC75
	C258,C259	CKSRYB473K50	IC101	M63018FP
_	C255	CKSRYB474K10		
	C125,C204,C205,C207	CKSRYF104Z25	IC471	MM1505XN
	C213,C214,C216,C217,C220	CKSRYF104Z25	IC472	MM1507XN
	C222-C225,C228,C231-C236	CKSRYF104Z25	IC451	MM1566AJ
	C239-C241,C244-C246,C253	CKSRYF104Z25	IC401	MM1623BF
D	C257,C260,C262,C264,C266	CKSRYF104Z25	IC201	MT1389EE-L1
			⚠ IC801	NJM78M05FA
	C268,C270-C273,C282	CKSRYF104Z25	IC501,IC601,IC701	PCM1742KE
	C284-C288,C290,C312,C402	CKSRYF104Z25	⚠ IC311	PQ1M505M2SPQ
	C404,C411,C415,C416,C502	CKSRYF104Z25	IC205	PST3228
	C532,C602,C605,C632,C702 C705,C71,C72,C732,C74	CKSRYF104Z25 CKSRYF104Z25	⚠ IC341	S-L2980A33MC-C6S
	0100,011,012,0102,014	ONOTHE 104220	10044	T0701 !! !0 45! !
	C102,C132,C139,C243,C261	CKSRYF105Z10	IC841	TC7SHU04FU
	C263,C283,C289,C303,C311	CKSRYF105Z10	IC203 Q482,Q492,Q562,Q662,Q762	VYW2202 2SA1576A
	C321,C341,C342,C412-C414	CKSRYF105Z10	Q482,Q492,Q562,Q662,Q762 Q372,Q373	2SA1576A 2SA1602A
	C43-C46,C504,C518	CKSRYF105Z10	Q371,Q4,Q481,Q491,Q901	2SC4081
Е	C592,C593,C6,C618,C718	CKSRYF105Z10		
_	C941 C912	CKCDVE105710	Q541-Q546,Q641,Q642	2SD2114K
	C841,C912	CKSRYF105Z10	Q741,Q742	2SD2114K
	RESISTORS		Q401	DTC114YUA
-	R222,R225	RAB4C330J	Q7,Q8	HN1A01F
	R515,R520,R615,R620,R715	RN1/16SE1002D	Q592,Q593	HN1C01FU
	R720	RN1/16SE1002D	Q5	UM5K1N
	R511,R514,R611,R614,R711	RN1/16SE5601D	Q561,Q661,Q761	UMH9N
	R714	RN1/16SE5601D	D471-D474,D481,D801	1SS355
			D591	UDZS6.8B
	R207-R209,R217	RS1/10S0R0J		
	R904	RS1/10S151J	COILS AND FILTERS	
F	R562,R662,R762	RS1/10S182J	L421,L422 CHIP BEAD	VTL1089
	R103,R106	RS1/10S1R0J	L311 CHIP BEAD	VTL1095
	R104,R107	RS1/10S1R8J		
			CAPACITORS	
56	3	DV-5	75A-S	

DV-575A-S

			,		
Mark No.	<u>Description</u>	Part No.	Mark No. Description	<u>Part No.</u>	
C292,C293,C29	7	CCSRCH101J50	R207-R209,R217	RS1/10S0R0J	
C265		CCSRCH220J50	R904	RS1/10S151J	
C142,C227		CCSRCH221J50	R562,R662,R762	RS1/10S182J	
C294,C295,C90	2	CCSRCH330J50	R103,R106	RS1/10S1R0J	٨
		CCSRCH331J50	•		Α
C507,C515,C51	6,0607	CCSRCH331J50	R104,R107	RS1/10S1R8J	
C615,C616,C70	7 C715 C716	CCSRCH331J50	R115-R120	RS1/10S4R7J	
C254	7,0710,0710	CCSRCH391J50	R421-R424	RS1/10S75R0F	
		CCSRCH561J50			
C211,C212			R262,R264,R268,R271,R274	RS1/16S1500F	
C251		CCSRCH8R0D50	R277	RS1/16S1500F	
C252		CCSRCH9R0D50	R279	RS1/16S2201F	_
C256,C471,C50	6	CEAT100M50	R321-R323	RS1/16S3302F	
C401,C405,C45		CEAT101M10	R905	RS1/16S75R0F	
C517,C611,C61		CEAT101M10	Other Resistors	RS1/16S###J	
C711,C712,C71		CEAT101M10			_
C281,C421,C42	2,C501	CEAT102M6R3	<u>OTHERS</u>		В
			CN301 KR CONNECTOR	B13B-PH-K	
C901		CEAT1R0M50	CN103 KR CONNECTOR	B5B-PH-K	
C201,C202,C23	7,C302,C601	CEAT221M6R3	CN451 FFC CONNECTOR 17P	HLEM17S-1	
C701,C73		CEAT221M6R3	JA502 4P PIN JACK	VKB1126	
C10,C203,C206	,C215	CEAT470M16	JA501 4P PIN JACK	VKB1120 VKB1132	
C521,C522,C53		CEAT470M16	ONOTI THE HINOMOTY	VINDITUE	
.,,	,		JA401 4P PIN JACK	VKB1168	
C621,C622,C72	1,C722,C801	CEAT470M16	CN104 4P FFC CONNECTOR	VKN1235	
C9	,: ,===:	CEAT470M16			
C423,C424		CEAT470M10 CEAT471M6R3	CN102 12P FFC CONNECTOR	VKN1243	
C423,C424 C11,C124,C230	C267 C206	CKSRYB102K50	CN201 15P FFC CONNECTOR	VKN1246	
			CN101 24P FFC CONNECTOR	VKN1464	
C298,C304,C50	5,6913	CKSRYB102K50			^
0400 0404 045	0.000	OKODVD4 00K50	JA901 JACK	VKX1013	С
C130,C134,C13		CKSRYB103K50	X201 CRYSTAL RESONATOR	VSS1168	
C313,C606,C70	6	CKSRYB105K10	(27MHz)		
C219		CKSRYB152K50			
C209		CKSRYB153K25			
C112-C114,C51	3,C514	CKSRYB222K50			
			C JCKB ASSY [VWV19	941	
C613,C614,C71	3,C714	CKSRYB222K50	CAPACITORS	-	
C269		CKSRYB333K16	C942	CEAT471M6R3	
C208,C210		CKSRYB472K50			
C258,C259		CKSRYB473K50	C941	CKSRYF104Z25	
C255		CKSRYB474K10	DECICTORS		
			RESISTORS	D0.//00==D0=	
C125,C204,C20	5,C207	CKSRYF104Z25	R941,R942	RS1/10S75R0F	D
C213,C214,C21		CKSRYF104Z25	Other Resistors	RS1/16S###J	
C222-C225,C22	8.C231-C236	CKSRYF104Z25			
C239-C241,C24	*	CKSRYF104Z25	<u>OTHERS</u>		
C257,C260,C26		CKSRYF104Z25	CN941 4P MINI DIN SOCKET	AKP7045	
,	, , == :, •=••		CN911 FFC CONNECTOR 5P	HLEM5S-1	
C268,C270-C27	3,C282	CKSRYF104Z25			
C284-C288,C29	•	CKSRYF104Z25			_
C404,C411,C41		CKSRYF104Z25	LOVE AGOVEDNOVA	0.51	
C461-C463,C47	, ,	CKSRYF104Z25	C JCKB ASSY [VWV19	195]	
C492,C502,C53	,	CKSRYF104Z25	SEMICONDUCTORS		
,000,,000	, , , , , , , , , , , , , , , , , , , ,		D991-D994	1SS355	
C632,C702,C70	5.C71.C72	CKSRYF104Z25	200. 2001	. 55566	
C732,C74	o, o, i, o, i	CKSRYF104Z25	CAPACITORS		E
C102,C132,C13	0 0043 0061	CKSRYF104Z25		000001100110	
0102,0132,013	, , , , , , , , , , , , , , , , , , ,		C911,C912	CCSRCH331J50	
C060 C000 C00		CKSRYF105Z10	C901-C904,C942	CEAT471M6R3	
C263,C283,C28	2,C412-C414	CKSRYF105Z10	C914,C941	CKSRYF104Z25	
C263,C283,C289 C321,C341,C349	•	01/05/15/05740	DEGIOTORO		
C321,C341,C34	2518		RESISTORS		_
C321,C341,C34		CKSRYF105Z10			
C321,C341,C34 C43-C46,C504,C C592,C593,C6,C		CKSRYF105Z10	R903,R906,R907,R909,R910	RS1/10S75R0F	
C321,C341,C34				RS1/10S75R0F RS1/10S75R0F	-
C321,C341,C34, C43-C46,C504,C592,C593,C6,CC841,C912		CKSRYF105Z10	R903,R906,R907,R909,R910		
C321,C341,C34; C43-C46,C504,(C592,C593,C6,C C841,C912 ESISTORS		CKSRYF105Z10 CKSRYF105Z10	R903,R906,R907,R909,R910 R941,R942 Other Resistors	RS1/10S75R0F	•
C321,C341,C34; C43-C46,C504,(C592,C593,C6,C C841,C912 ESISTORS R222,R225	C618,C718	CKSRYF105Z10 CKSRYF105Z10 RAB4C330J	R903,R906,R907,R909,R910 R941,R942 Other Resistors	RS1/10S75R0F	•
C321,C341,C34; C43-C46,C504,(C592,C593,C6,C C841,C912 ESISTORS R222,R225 R515,R520,R61;	C618,C718	CKSRYF105Z10 CKSRYF105Z10 RAB4C330J RN1/16SE1002D	R903,R906,R907,R909,R910 R941,R942 Other Resistors	RS1/10S75R0F	
C321,C341,C34; C43-C46,C504,C592,C593,C6,C841,C912 RESISTORS R222,R225 R515,R520,R61; R720	5,R620,R715	CKSRYF105Z10 CKSRYF105Z10 RAB4C330J RN1/16SE1002D RN1/16SE1002D	R903,R906,R907,R909,R910 R941,R942 Other Resistors	RS1/10S75R0F RS1/16S###J	F
C321,C341,C34 C43-C46,C504,C C592,C593,C6,C C841,C912 RESISTORS R222,R225 R515,R520,R61	5,R620,R715	CKSRYF105Z10 CKSRYF105Z10 RAB4C330J RN1/16SE1002D	R903,R906,R907,R909,R910 R941,R942 Other Resistors OTHERS CN941 4P MINI DIN SOCKET	RS1/10S75R0F RS1/16S###J AKP7045	

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Mark No. Description Part No.

DFLKY ASSY [VWG2483] SEMICONDUCTORS

A IC101 PE5374B D102 SLR-343VC

SWITCHES AND RELAYS

S103,S105-S108,S117,S119 VSG1024

CAPACITORS

C183 CKSRYB102K50
C151-C153 CKSRYB103K50
C102,C105,C182 CKSRYF104Z25
C104 CKSRYF104Z50

RESISTORS

All Resistors RS1/16S###J

OTHERS

 IC104
 REMOTERECEIVER UNIT
 RPM7240-H4

 FL101
 FL TUBE
 VAW1078

 CN101
 15P FFC CONNECTOR
 VKN1246

 0
 CONNECTOR ASSY 2P
 VKP2322

 X101
 CERAMIC RESONATOR
 VSS1142

 (5MHz)
 VSS1142

c DFLKY ASSY [VWG2484]

SEMICONDUCTORS

IC101 PE5374B D102 SLR-343VC

SWITCHES AND RELAYS

S103,S105-S108,S117,S119 VSG1024

CAPACITORS

C183 CKSRYB102K50
C151-C153 CKSRYB103K50
C102,C105,C182 CKSRYF104Z25
C104 CKSRYF104Z50

RESISTORS

All Resistors RS1/16S###J

OTHERS

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IC104 REMOTE RECEIVER UNIT RPM7240-H4
FL101 FL TUBE VAW1078
CN101 15P FFC CONNECTOR VKN1246
0 CONNECTOR ASSY 2P VKP2322
X101 CERAMIC RESONATOR VSS1142

(5MHz)

D FLKY ASSY [VWG2494]

SEMICONDUCTORS

IC101 PE5374B D102 SLR-343VC

SWITCHES AND RELAYS

S102-S107,S109-S118 VSG1024

CAPACITORS

C183 CKSRYB102K50
C151-C153 CKSRYB103K50
C102,C105,C182 CKSRYF104Z25
C104 CKSRYF104Z50

Mark No. Description Part No.

RESISTORS

All Resistors RS1/16S###J

OTHERS

CN102 KR CONNECTOR 3P B3B-PH-K
IR101 REMOTE RECEIVER UNIT RPM7240-H4
V101 FL TUBE VAW1078
CN101 15P FFC CONNECTOR VKN1275
X101 CERAMIC RESONATOR VSS1142
(5MHz)

PWSB ASSY [VWG2482]
SWITCHES AND RELAYS

S101 VSG1024

PWSB ASSY [VWG2495]
SWITCHES AND RELAYS

S101 VSG1024

OTHERS

CN103 KR CONNECTOR 3P B3B-PH-K

F POWER SUPPLY UNIT [VWR1376]

OTHERS

 ⚠ CP1 PROTECTOR (800mA) AEK7008

F POWER SUPPLY UNIT [VWR1377]

OTHERS

 ⚠ CP1 PROTECTOR (800mA) AEK7008

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6. ADJUSTMENT

6.1 ADJUSTMENT ITEMS AND LOCATION

■ Adjustment Items

[Mechanism Part]

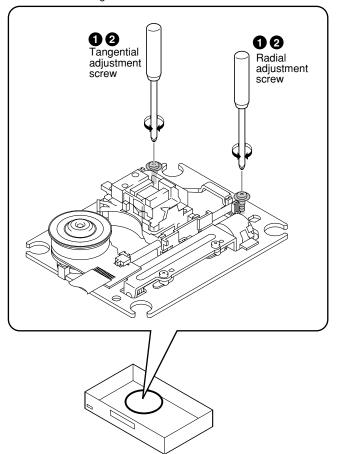
- 1 Tangential and Radial Height Coarse Adjustment
- 2 DVD Error Rate Adjustment

[Electrical Part]

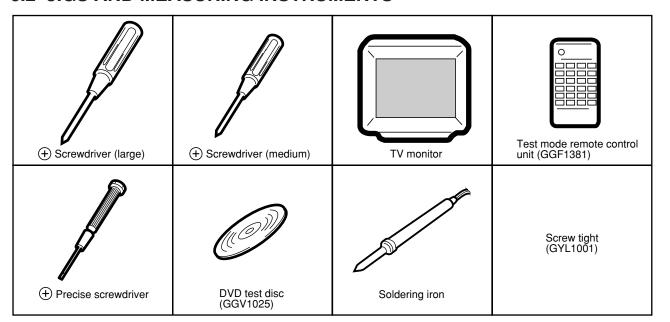
Electrical adjustments are not required.

■ Adjustment Points (Mechanism Part)

Cautions: After adjustment, adjustment screw locks with the Screw tight.



6.2 JIGS AND MEASURING INSTRUMENTS



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When

Adjustment Points

A ■ Exchange Parts of Mechanism

Exchange the 03 SD Pickup Assy-S

Mechanical point * After adjustment, screw locks with the Screw tight.

3

Electric point

Mechanical point

Electric point

Exchange the Traverse Mecha. Assy-S

■ Exchange PCB Assy

Exchange PC Board LOAB and DVDM ASSYS



Mechanical point

Electric point

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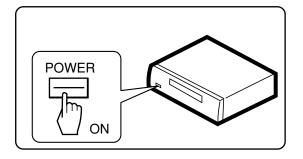
DV-575A-S

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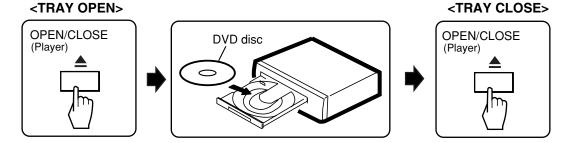
С

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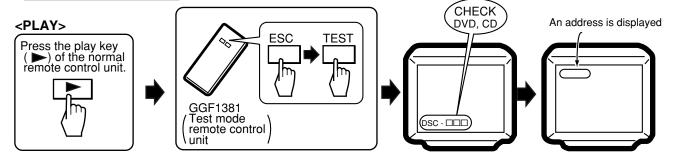
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DISC SET



TEST MODE: PLAY

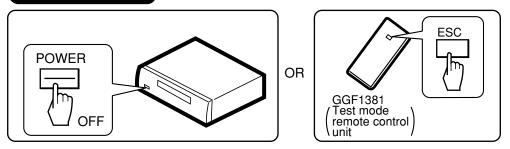


Notes:

- After going into test mode, if you play back the disc, "DISC-NON" is displayed.
- The video signal and the audio signal are outputted during the test mode.
- The SKIP key and the SCAN key are effective during the test mode.

TEST MODE: OFF

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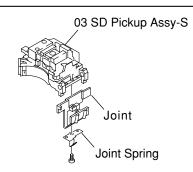
Tangential and Radial Height Coarse Adjustment

START

- Remove the 03 SD Pickup Assy-S from the Traverse Mecha. Assy.
- Remove the joint and the joint spring of the 03 SD Pickup Assy-S.

Before removing the flexible cable for the pickup, soldering of the pickup circuit is necessary.

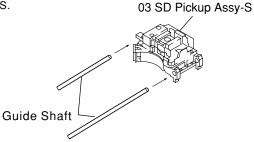
For details, see "7.1.10 DISASSEMBLY".





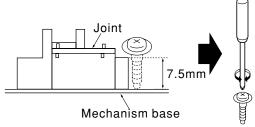
• Pass through the guide shaft to a new 03 SD Pickup Assy-S.

• Attach it to the Traverse Mecha. Assy.





Put the joint between the Tangential (or Radial) adjustment screw and the mechanism base and turn each screw to adjust the height. (Refer to "6.1 ADJUSTMENT ITEMS AND LOCATION".)

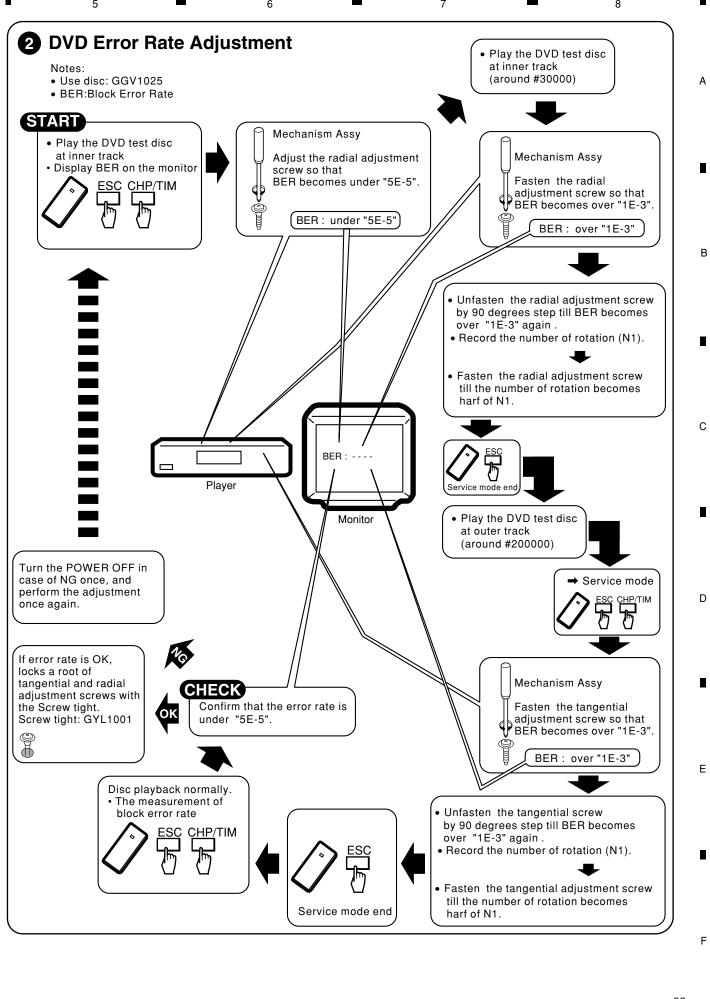




- Attach the Traverse Mecha. Assy-S to the 04 LOADER Assy.
- Turn it over and attach the joint and the joint spring.
- Arrange the flexible cables.

(Refer to "7.1.10 DISASSEMBLY".)

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7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 TEST MODE

■ Test Mode Functional Specification

1) Test mode entry

In the power ON state, press the [ESC] (A8-5F) key and [TEST / RANDOM] (A8-5E) key in order of the Test mode remote control unit.

- Light the all FL and LEDs.
- OSD displays test mode.

Note:

* When pressing the keys of something, the FL displays "NO DISC" and the LED lighting disappears.

2 Release the Test mode

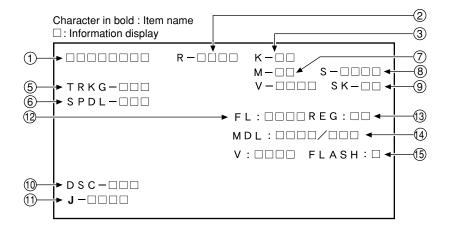
- Turn off the power.
- Press the [ESC] (A8-5F) key of the remote control unit and reset it.

③ LD ON

DVD : Press the [TEST] (A8-5E) and [1] (A8-01) keys in order, and turn on the laser diode (650n).

CD: Press the [TEST] (A8-5E) and [4] (A8-04) keys in order, and turn on the laser diode (780n).

7.1.2 DISPLAY SPECIFICATION OF THE TEST MODE



1 Address indication

The address being traced is displayed in number. (as for the DVD, indication of decimal number is possible.) DVD: ID indication (hexadecimal number, 8 digits)

[******* [*******] CD: ID indication

- 2 Code indication of remote control unit [R * * * *] In case of double code, display a 2nd code.
- 3 Main unit keycode indication [K * *]
- 5 Tracking status [TRKG * * *]

Tracking on : [ON] Tracking off: [OFF]

- 6 Spindle status [SPDL * * *] [OFF], [CLV]
- 7 Mechanism (loading) position value [M * *]

: [01] or [41] Unknown Open state : [04] Close state : [08] During opening: [12] During closing : [22]

8 Slider position [S - * * * *]

In Side Switch ON : [01] In Side Switch OFF: [00]

9 Output video system [V - * * * *]

NTSC system : [NTSC] PAL system : [PAL] Automatic setting: [AUTO]

Scart terminal output [SK - * *]

(Display only the WY model which can do the output setting of scart terminal.)

: [00] VIDEO S-VIDEO: [01] **RGB** : [02]

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10 Disc sensing [DSC - * * *]

The type of discs loaded is displayed. [DVD], [CD], [VCD], []

- 11 Jitter value [J * * * *] Note:Don't use it.
- (2) Version of the FL controller [FL: * * * *]
- 13 Region setting of the player [REG: *] Setting value: [1] to [6]
- (4) Destination setting of the FL controller

[MDL: * * * * / * * *]

Four characters in the front represent code 01. Three characters in the back represent the destination code. J: /J, K: /KU, /KC, /KU/KC, R: /RL/RD, RAM: /RAM, LB: /LB, WY: /WY

(5) Version of the flash ROM [V: *. * * *] Flash ROM size [FLASH = * *]

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7.1.3 FUNCTIONAL SPECIFICATION OF THE SHORTCUT KEY

Only during normal playback, the following shortcut keys can be assigned by pressing a required key after pressing the ESC key of the remote control unit. To quit, press the ESC key

Command Contents	Conditions	Remote Control Key Name	Remote Control Code
Memory clear and region / revision indication		CLEAR (*1)	A8-45
Average value measurement of DVD error rate		5 (*1)	A8-05
CD error rate measurement		5 (*1)	A8-05
Scart terminal output : VIDEO		AUDIO	AF-BE
Scart terminal output : S-VIDEO	WY, models equipped with Scart terminal	SUBTITLE	AF-36
Scart terminal output : RGB		ANGLE	AF-B5
Progressive OFF	Only for management and dela	R_SKIP	A3-9D
Progressive ON	Only for progressive models	F_SKIP	A3-9C
FL indication of ID number		STEREO (*1)	A8-4A
ZOOM ON (X2 -> X4 -> x1)		ZOOM	AF-37
Service mode indication (error rate indication, etc.)		CHP/TIM (*1)	A8-13
Model information indication		CHAP (*1)	A8-40
Title search Input mode IN Title No. input Search execution		SIDE A (*1) Numbers (*1) PLAY (*1)	A8-4D A8-00 to A8-09 A8-17
Region confimation mode		AUDIO (*1) Numbers (*1)	A8-1E A8-01 to A8-08

*1 : Test mode remote control unit

• Service mode indication (ESC + CHP/TIM keys)

ID Address

Α

The error rate is always displayed in exponential notation, e.g., *.* * e - *, for both DVDs and CDs. EDC/ID/AV 1 error history (ID Address, EDC/ID Error, last eight errors)

• Calculation of the average error rate (ESC + "5" [Test mode remote control unit] keys)

The average of the last eight error rates is calculated and indicated in exponential notation. After the calculation is completed, "OK" or "NG" is displayed. If "NG" is displayed, the disc tray will open (for both DVDs and CDs)

For DVDs: OK with 5.0e-4 or less, for CDs: OK with 7.6e-3 or less

• Indication of model information (ESC + CHAP keys)

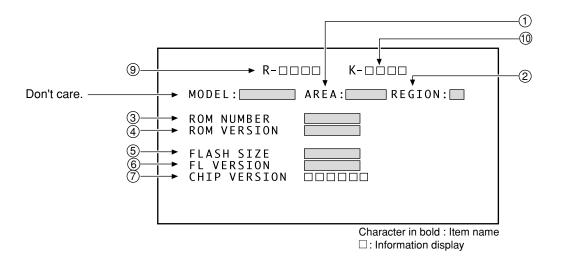
The items from 12 to 15 of the TEST MODE Indications are displayed. However, in the indications, S in the standard test mode is changed to CHIP VERSION, and M is changed to RF VERSION. For details, see 7.1.4.

• Region confirmation mode (ESC + AUDIO [Test mode remote control unit] + "1"-"8" [Test mode remote control unit] keys)
After you press the AUDIO key while holding the ESC key pressed and then input the region number, if the number is different from that set in the unit, an error message is displayed, and the tray opens.

7.1.4 SPECIFICATION OF MODEL INFORMATION DISPLAY

To display model information : Press the ESC key then the CHAP key. To close the model information display : Press the ESC key.

• Display contents



1 Destination indication

Display it according to model information set from the FL controller.

- 2 Region No.
- **3 Part number**
- **4** ROM version
- 5 Flash size
- **6** FL controller version
- **7 CHIP VERSION**
- 9 Remote control code
- 10 Key code of Main unit

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7.1.5 FUNCTIONAL SPECIFICATION OF THE SERVICE MODE

• Display during Service Mode

To enter Service Mode, press the CHP/TIM key while holding the ESC key pressed. To quit, press the ESC key.

Service mode display

1 ID Address

Α

В

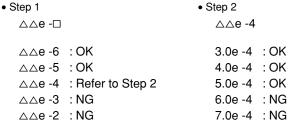
2 Error rate (always displayed), in exponential notation

Calculation of the average error rate

For PV(Par OK with Fig. 4 and least for OP and OK with Fig. 4 and least for OP and OK with Fig. 4 and I are for OP and OK with Fig. 4 and OK w

For DVDs: OK with 5.0e-4 or less, for CDs: OK with 7.6e-3 or less

ex) For DVDs

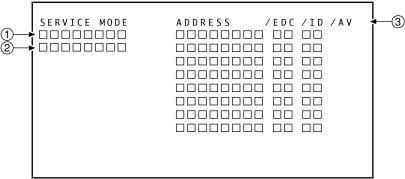


③ EDC/ID error history (ID Address, EDC/ID errors, last eight errors)

Note

* Error of AV1 is not supported in this player.

Indication plan contents



Character in bold : Item name
☐: Information display

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7.1.6 METHOD FOR DIAGNOSING DEGRADATION OF THE LDS ON THE PICKUP ASSY

Case when this diagnosis is required:

When playback of any disc, including a test disc (DVD: GGV1025, CD: STD-905), cannot be performed

■ How to diagnose

In the case mentioned above, degradation of the laser diodes (LDs) mounted on the 03 SD Pickup Assy-S is suspected. Measure the voltage between the two ends of one of the resistors mentioned below.

• No playback of a DVD :

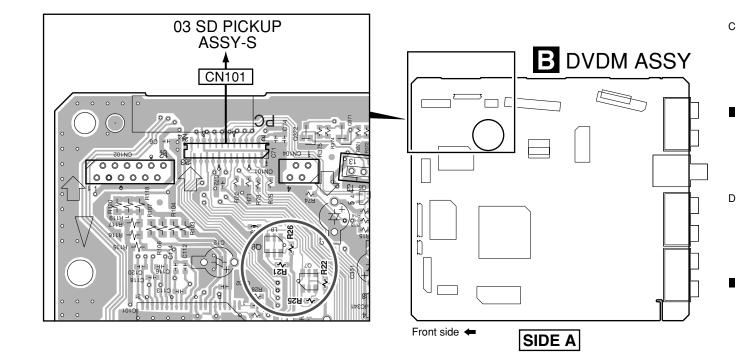
Measure the voltage between the two ends of R22 or R25 on the DVDM Assy. If the voltage is 0.4 V or higher, the 650-nm LD is degraded.

No playback of a CD :

Measure the voltage between the two ends of R21 or R26 on the DVDM Assy. If the voltage is 0.4 V or higher, the 780-nm LD is degraded.

If the measurements show degradation of an LD, replace the 03 SD Pickup Assy-S.

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7.1.7 TROUBLE SHOOTING

[No.	Symptoms	Diagnosis Contents	Possible Defective Points
Α			Check the voltage of EV4.0V, -28V, FLDC + and FLDC - on the POWER SUPPLY Unit.	POWER SUPPLY Unit
			Are wires of output connector (POWER SUPPLY Unit) and CN301 (DVDM Assy) disconnected or damaged ?	Connector / cable
•	1	The power is not turned on.	Check that the voltage at IC101-pin 22 (KEY0) on the FLKY Assy becomes 0 V when the POWER key is pressed and 3.3 V when it is released.	FLKY Assy Tact SW (when operation of only the POWER key on the main unit is not accepted)
			Check that the following voltage is output : IC341-pin 5 : 3.3V on the DVDM Assy	DVDM Assy 3.3V Regulator IC (IC341)
В			Check that the voltage at IC101-pin 17 (SEL IR) on the FLKY Assy is in the range between 0 and 3.3 V while receiving signals from the remote control unit when any key on it is pressed.	FLKY Assy Remote receiver section (when operation of only the POWER key on the remote control unit is not accepted)
				FLKY Assy FL Control IC (IC101)
•			 Check the voltage of E+6.8V and SW3.3V on the POWER SUPPLY Unit. Check the voltage of Pcont is about 3V on the POWER SUPPLY Unit. 	POWER SUPPLY Unit
		An opening screen is not displayed on the monitor (The FL display lights. The mechanism does not work.)	Check that the following voltage are output: IC311-pin 5:5V on the DVDM Assy.	DVDM Assy 5V Regulator IC (IC311)
С			Is a resonator (X201 : 27MHz) on the DVDM Assy oscillating ?	DVDM Assy Crystal resonator (X201)
•	2		 Is a signal input into IC203-pin26 (PCE#) on the DVDM Assy? (Is a signal "H" for 80 mS and then "L" after the power is turned on?) → Communication with flash ROM. Are the signals input into IC202-pin 16 (DWE#), pin 19 (DCS#) and pin 38 (SDCLK) on the DVDM Assy? (Is a signal fluctuating?) → Communication with SDRAM 	DVDM Assy DVD IC (IC201) Flash ROM (IC203) SDRAM (IC202)
D			Is a signal output from IC203-pin 28 (PRD#) on the DVDM Assy? (Is a signal fluctuating for several hundred mS after the power is turned on ?)	DVDM Assy Flash ROM (IC203)
				DVDM Assy DVD IC (IC201) FLKY Assy FL Control IC (IC101)
•			Is a signal output from IC101-pin 10 (XREADY) on the FLKY Assy? (Is a signal fluctuating in the range of 0-3V?)	FLKY Assy FL Control IC (IC101)
_			Assy?	DVDM Assy DVD IC (IC201) – FLKY Assy FL Control IC (IC101) communication line
E			Are the signals of IC204-pin 5(SDA) and pin 6(SCL) on the DVDM Assy fluctuating for one or two seconds after the power is turned?	DVDM Assy EEPROM (IC204)
•		An opening screen is not displayed on the monitor (The FL display lights. The mechanism does not work.)	Check the video signal path between DVD IC (DVDM Assy IC201) and video-out terminal (see the block diagram)	DVDM Assy Video circuit after DVD IC (IC201)

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No.	Symptoms	Diagnosis Contents	Possible Defective Points
		Does the voltage of CN103-pin 3 and pin 5 on the DVDM Assy change normally ? Pin 3 (SW2(TRIN)): Tray is fully closed: "L" Pin 5 (SW1(TROUT)): Tray is fully opened: "L"	LOAB Assy Tray SW (S101)
		Is a LOAD-DRV signal reaching ?	DVDM Assy DVD IC (IC201)
4	A tray cannot be opened. (An opening screen is displayed on the monitor)	Are the signals output from IC101-pin 36 and pin 37 (CN103-pin 1 and pin 2) on the DVDM Assy? Pin 36: Approx. 6V during opening tray approx. 6V during closing tray. Pin 37: Approx. 0V during opening tray approx. 6V during closing tray.	DVDM Assy FTS Driver IC (IC101)
		Are wires of CN104 and CN103 on the DVDM Assy disconnected or damaged ?	Connector / cable
		Does the voltage of CN102-pin 12 change by pressing the Inside switch.	Inside switch
		Are the signals output from IC101-pin 34 (FOCS_DRV) and pin 35 (FOCS_RTN) on the DVDM Assy?	DVDM Assy FTS Driver IC (IC101)
		Does 650-nm LD emit light ? Does a pickup lens move up / down ? Does an actuator spring bend ?	Pickup
5	Playback impossible (no focusing)	Are plastic parts damaged? Or is a shaft detached? Is the turntable detached or tilted?	Mechanism section (motor)
		Is flexible cable of CN101 on the DVDM Assy disconnected or damaged ?	Flexible cable / connector
		Is signal output from IC201-pin 42 (FOSO) on the DVDM Assy? (Device control of about 1.4 V is output usually. It is fluctuated by about ± 250 mV with focus up / down.)	DVDM Assy DVD IC (IC201)
	Playback impossible (Spindle does not turn)	Are the signals output from IC101-pin 12 (W), pin 13 (V) and pin 14 (U) on the DVDM Assy? Is pin 41 (STBY) fixed LOW and is pin 38 (ENDM) fixed LOW?	DVDM Assy FTS Driver IC (IC101)
6		Is there any part detached from the spindle motor? Or Is there any foreign object lodged in it?	Mechanism section (Spindle motor)
		Are wires of CN102 on the DVDM Assy disconnected or damaged ?	Flexible cable / connector
		Is signal output from IC201-pin 37 (DMSO) on the DVDM Assy?	DVDM Assy DVD IC (IC201)
7	Playback impossible (Playback stops)	Does 650-nm LD deteriorate ? If the voltage at each both ends of R22 and R25 on the DVDM Assy is 0.4 V or more, the 650-nm LD is definitely deteriorated.	650-nm LD deteriorated. (When playback of a DVD is impossible)
		Does 780-nm LD deteriorate? If the voltage at each both ends of R21 and R26 on the DVDM Assy is 0.4 V or more, the 780-nm LD is definitely deteriorated.	780-nm LD deteriorated. (When playback of a CD is impossible)
		Is there abnormality in FG waveform ?	DVDM Assy FG output : FTS Driver IC (IC101)
		Are there scratches or dirt on the disc?	Disc
8	Picture disturbance during playback (block noise, freeze, other)	Are there scratches or dirt on the disc ? Is there a problem with the format of the disc ?	Disc
	,	Check the waveform (ABCK, ALRCK, ACLK, ASDATA).	DVDM Assy DVD IC (IC201)
9	No sound (Picture is normal)	Is signal output from audio DAC IC on the DVDM Assy? Main CH: IC501-pin 7, pin 8 Multi CH: IC601-pin 7, pin 8, IC701-pin 7, pin 8	DVDM Assy Audio Dac IC (IC501) Audio Dac IC (IC601, IC701)

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• Symptoms That May Occur When Any Of The Following ICs Is In Failure

IC	Symptoms
EEP ROM (DVDM Assy : IC204)	User's data cannot be stored in memory. The ID number is lost.
8M Flash ROM (DVDM Assy : IC203)	The power cannot be turned on. Downloading of the firmware cannot be performed.
DVD IC (DVDM Assy : IC201)	Any kind of symptoms (no power, a failure in any of the servo, video and audio systems, etc.) may be generated, because the DVD processing is performed by a single chip.
64M SDRAM (DVDM Assy : IC202)	No power. Block noise is generated during playback.

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7.1.8 ID NUMBER AND ID DATA SETTING

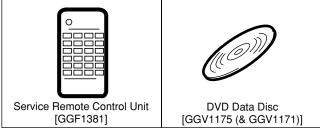
For the DVD players compatible with DVD-RW, for playback of a DVD-RW disc (CPRM), it is necessary that an individual ID number and ID data are set for each player. If the ID number and ID data be not properly set in the manner described below, future operations cannot be guaranteed. The ID number is written on the yellow label at the rear panel of the player. If there is no yellow label, before downloading FLASH ROM, take note of the ID number set following the procedures outlined in "ID Number Confirmation Mode" on the next page.

Note: Enter ID numbers while the unit is in Stop mode so that the values set will be immediately written to the flash ROM.

Setting an ID number or ID data is required in the following case:

If "No ID Number!" or "NO ID DATA!" is displayed on the TV screen and on the FL display for a few seconds immediately after the power to the player is turned on or during Stop mode.

JIGS AND MEASURING INSTRUMENTS



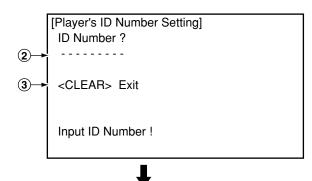
Note) GGV1175 is to be released in May, 2004.

ID Number Input Mode

(1) To enter ID Number Input Mode, with no ID number set, such as in a case of immediately after upgrading the firmware, press the ESC key then the STEREO key.

Note: If a previous ID number and ID data, such as a factorypreset ID number and ID data, are maintained, the unit enters ID Number Confirmation Mode when the above keys are pressed. However, if only an ID number is maintained, the unit enters ID Data Input Mode.

- (2) Enter a 9-digit ID number. The ID number is also displayed on the FL display.
- (3) By pressing the CLEAR key without having input a number, you can exit this mode. Each press of this key after a number has been input deletes one digit.

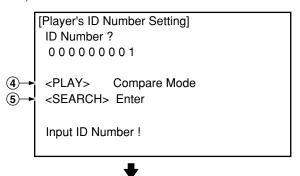


(4) After entering all 9 digits, if you press the PLAY key, the unit enters Compare mode. Enter the same ID number again. Only if your two input numbers match, the ID number is set. Compare mode helps eliminate mistyping of the ID number.

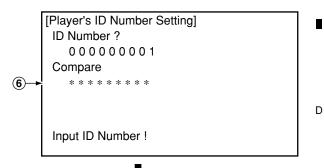
Note: If you press the PLAY button before inputting a 9-digit ID number, the unit returns to Step 2 without doing anything



(5) After entering all 9 digits, if you press the SEARCH key, the unit unconditionally sets the input number as the ID number. Then the unit automatically enters Player's Data Input Mode. (The SEARCH key is not accepted after all 9 digits have been entered.)

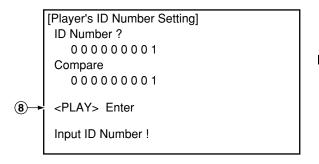


- (6) This display appears when the PLAY key is pressed in Step 4. Enter a 9-digit number to compare. The number is also displayed on the FL display.
- (7) By pressing the CLEAR key without having input a number, the unit returns to Step 2 without doing anything else. Each press of this key after a number has been input deletes one digit.



(8) After entering all 9 digits, if you press the PLAY key, the unit compares the numbers input in Steps 2 and 6, and only if the numbers match, that number is set as the ID. Then the unit automatically enters ID DATA Input Mode. If the numbers do not match, the disc tray is opened, and the unit exits ID Number Input Mode.

Note: If you press the PLAY button before inputting a 9-digit ID number, the unit returns to Step 6 without doing anything



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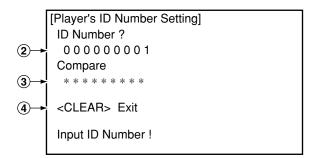
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ID Number Confirmation Mode

- ① To enter ID Number Confirmation Mode after the ID number and the ID data are set, press the ESC key then the STEREO key.
- (It is also displayed on the FL display).

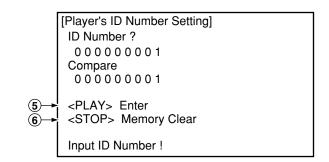
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- (3) Enter a 9-digit number for comparison. This is not required when you only wish to check the ID number visually. (The number is also displayed on the FL display.)
- A By pressing the CLEAR key without having input a number, you can exit this mode. Each press of this key after a number has been input deletes one digit.





- (5) After entering all 9 digits, if you press the PLAY key, the unit compares the number entered in Step ② with the ID number set, and only if the numbers match, the unit automatically exits ID Number Confirmation Mode. If an ID data has not been entered, the unit enters ID DATA Input Mode. If the numbers do not match, the disc tray is opened, and the unit exits ID Number Confirmation Mode.
- Note: If you press the PLAY button before inputting a 9-digit ID number, the unit returns to Step ④ without doing anything else.
 - (6) After entering all 9 digits, if you press the STOP key, the unit compares the number entered in Step ③ with the ID number set, and only if the numbers match, the unit automatically deletes the ID number and exits this mode. If the numbers do not match, the disc tray is opened, and the unit exits this mode. (The STOP key is not accepted after all 9 digits have been entered.)



• Indication of an ID number already set

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An ID number already set is displayed in the following cases:

- When the ESC key then the CLEAR key are pressed, user settings are cleared, then the ID number set is displayed on the screen. In this case, the ID number is not displayed on the FL display.
- 2) When the unit enters ID Number Confirmation Mode by your pressing the ESC key then the CLEAR key, the ID number set is displayed. In this case, the ID number is also displayed on the FL display.

If you only need to confirm the ID number, you can exit this mode by pressing the CLEAR key or turning off the power.

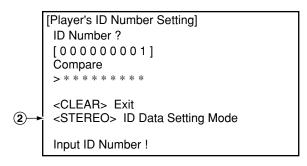
• Indication when no ID number is set

If no ID number is set, the message "No ID Number!" flashes on the screen and FL display for a few seconds after the power is turned on or during Stop mode.

① To enter ID DATA Input Mode, with the ID number set, press the ESC key then the STEREO key.

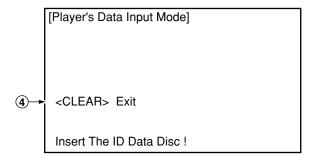
6

(2) When the STEREO key is pressed, the unit enters ID DATA Input Mode.



- (3) If the DVD DATA DISC is loaded in this mode, the unit automatically starts reading the data.

 (If the DVD DATA DISC has already been loaded, the unit does not start reading the data. In this case, open then close the
- (4) To exit this mode, press the CLEAR key. While data are being read from the DVD DATA DISC, you cannot exit this mode.

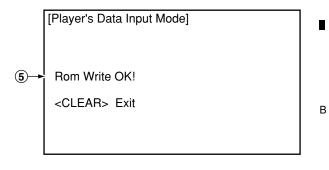




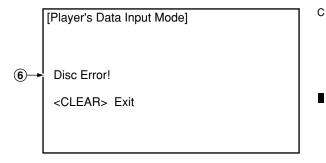
5

(5) When writing of the data read from the disc to flash ROM is completed, "Rom Write OK!" is displayed. After seeing this message, you can exit this mode by pressing the CLEAR key.

Note: Whether or not the data have been written to flash ROM can be confirmed by watching for the message "Rom Write OK!" being displayed after the disc is read.



(6) If the data cannot be read from the disc, "Disc Error!" is displayed on the screen, and the disc is ejected.



• Indication when the data have not been set

If no ID data are set after the ID number is changed, the message
"NO ID DATA" flashes on the screen and FL display for a few
seconds after the power is turned on or during Stop mode.

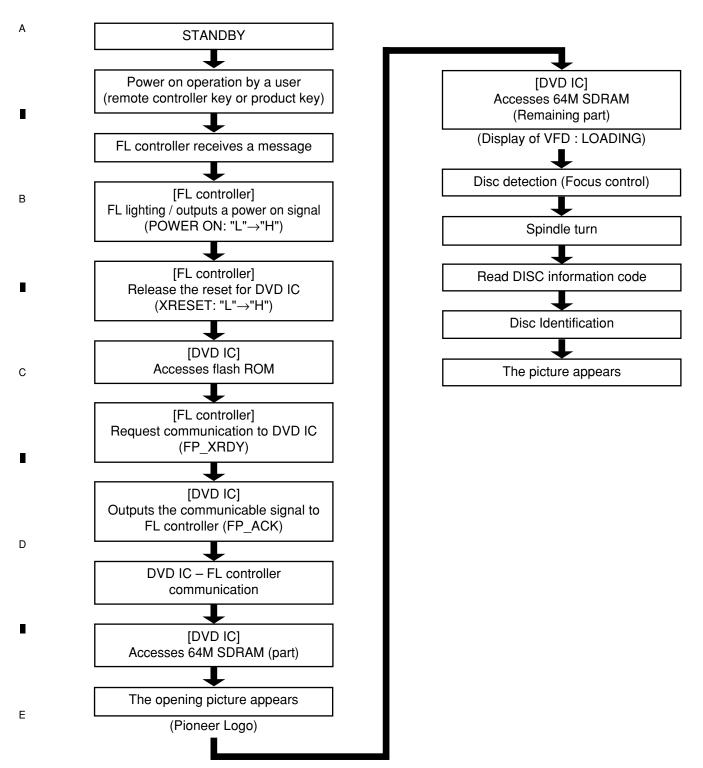
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7.1.9 SEQUENCE AFTER POWER ON

Flow chart from power on to the picture output



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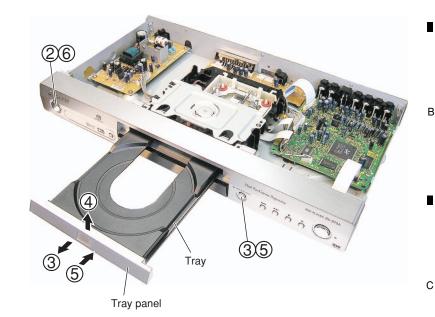
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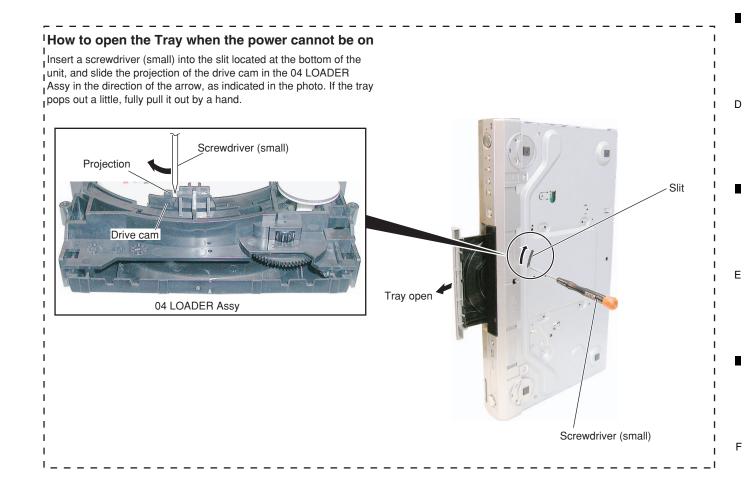
Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

Diagnosis of the DVDM Assy

1 Bonnet and Tray panel

- 1 Remove the bonnet by removing the seven screws.
- Press the (STANDBY/ON button to turn on the power.
- \bigcirc Press the \triangle button to open the tray.
- 4 Remove the tray panel.
- (5) Press the \triangle button to close the tray.
- Press the STANDBY/ON button to turn off the power.





2 = 3 = 4

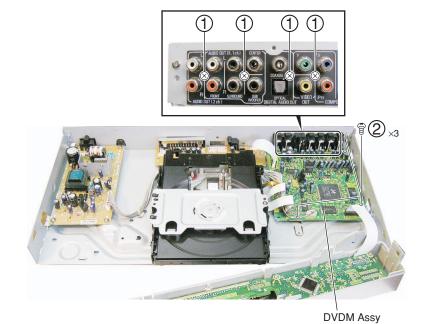
2 Front panel section

- (1) Remove the six hooks.
- A Remove the front panel section.

3 DVDM Assy

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- Remove the four screws.
 - 2 Remove the three screws.



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Remove the DVDM Assy and stand it against the other parts.

▼Diagnosis

DVDM Assy

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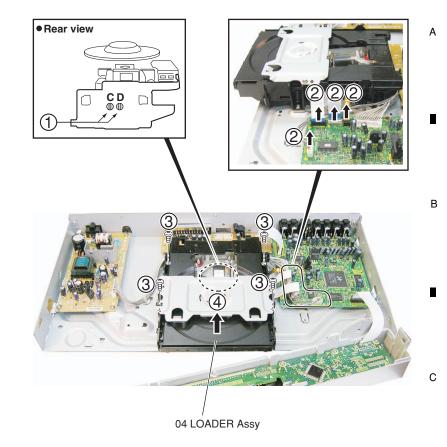
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1 Short-circuit two points of C and D by soldering.

Note: After replacement, connect the flexible cable, then remove the soldered joint (open).

- ② Disconnect the four connectors.
- 3 Remove the four screws.
- (4) Remove the 04 LOADER Assy.



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Removing the Traverse Mecha. Assy-S and 03 SD Pickup Assy-S

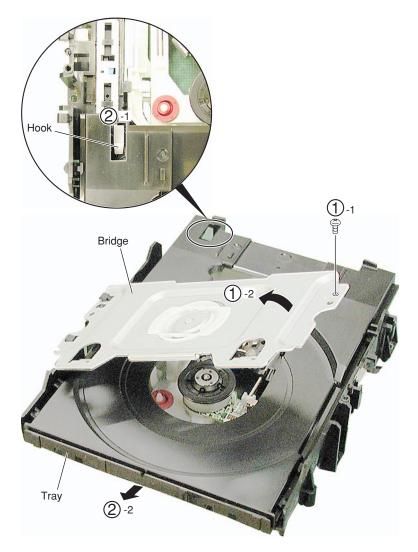
1 Bridge and Tray

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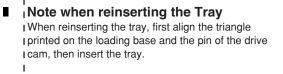
С

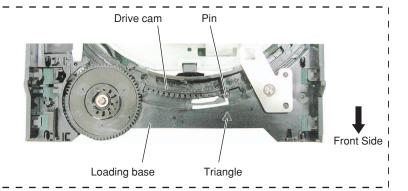
D

- Remove the bridge by removing the one screw.
- 2 Pull out the tray, then remove it by pressing the hook.



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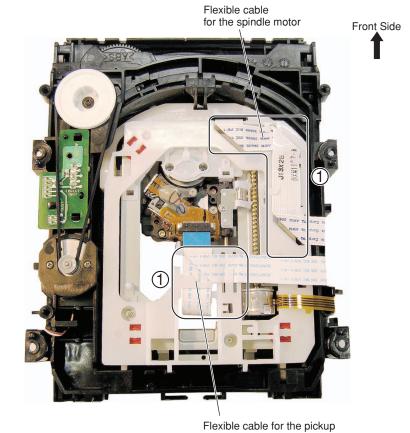


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2 Traverse Mecha. Assy-S

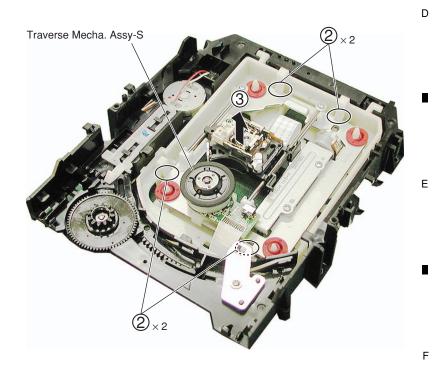
5

① Dislodge the flexible cables from their packaged placement.



● Bottom View

- 2 Remove the four hooks.
- Remove the Traverse Mecha. Assy-S.



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3 03 SD Pickup Assy-S

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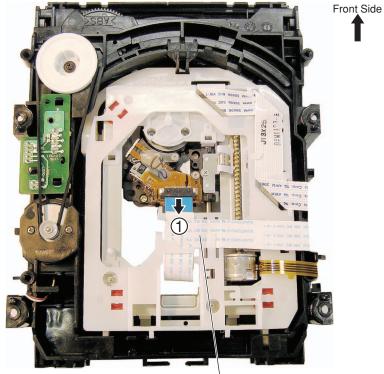
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Note: The 03 SD Pickup Assy-S can be removed without removing the Traverse Mecha. Assy-S. (shown as Step 2.)

1 Remove the flexible cable for the pickup.



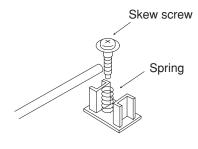
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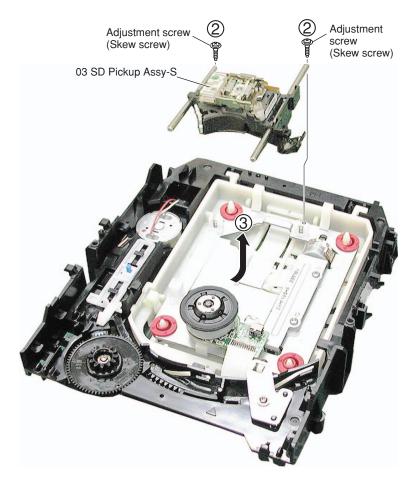
Flexible cable for the pickup

Bottom View

- 2 Remove the two adjustment screws.
- Remove the 03 SD Pickup Assy-S.

Note: Be careful not to lose the spring for the skew screw.





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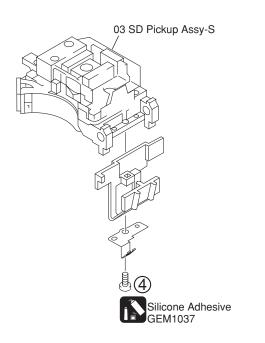
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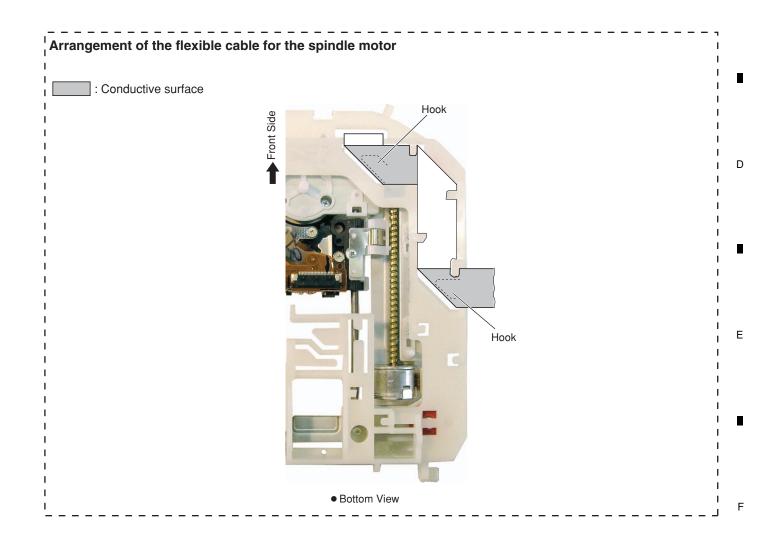
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Note: The screw is secured with the silicone adhesive. Make sure to apply the silicone adhesive after reattaching the screw.





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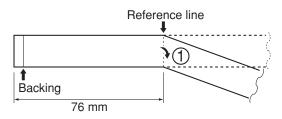
Arrangement of the flexible cable for the pickup

: Conductive surface

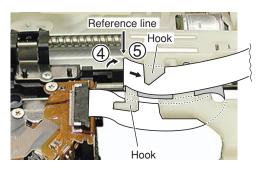
Note:

Be sure to move the 03 SD Pickup Assy-S to the innermost perimeter.

Told the flexible cable of pickup with the backing outward in the illustration below.

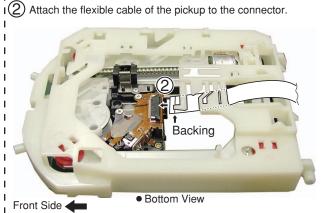


- \bigcirc Hook the part folded in Step \bigcirc to the hook.
- 5 Pass the flexible cable through the hook.

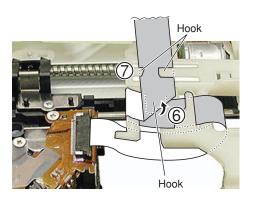






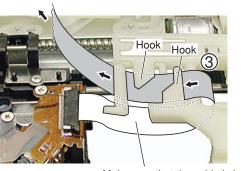


- 6 Fold the flexible cable along the hook.
- Pass the flexible cable through the hook.





Pass the flexible cable through the hook.



Make sure that the cable is loose



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• The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.

6

List of IC

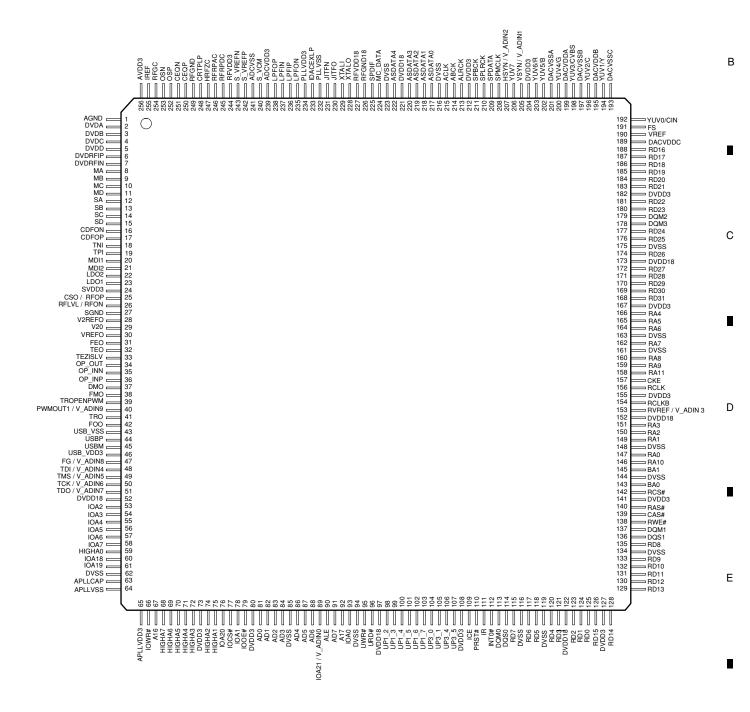
MT1389EE-L1

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■ MT1389EE-L1 (DVDM ASSY : IC201)

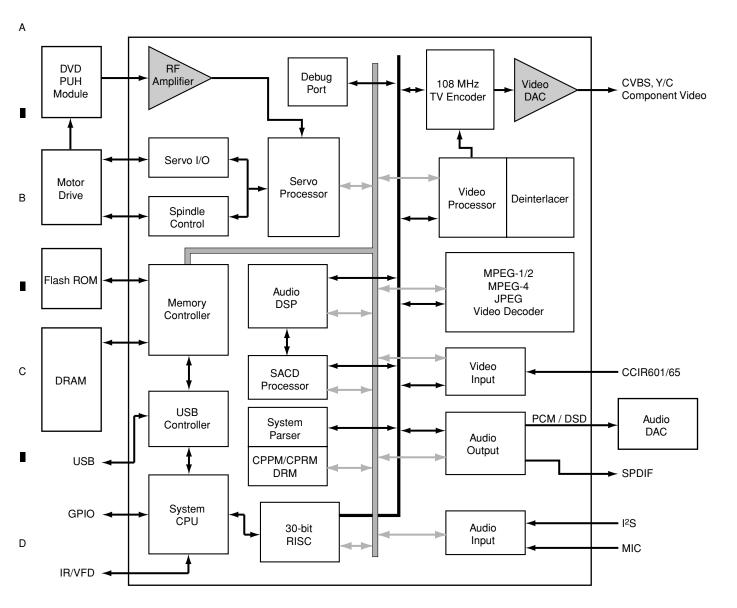
- DVD IC
- Pin Arrangement

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DV-575A-S

• Pin Function

■ RF Interface (28)

No.	Name	Alt.	I/O	Function
226	RFGND18		Ground	Analog ground
227	RFVDD18		Power	Analog power 1.8V
250	CEQP		Analog output	EQ offset loop capacitance
251	CEQN		Analog output	EQ offset loop capacitance
252	OSP		Analog output	RF Offset cancellation capacitor connecting
253	OSN		Analog output	RF Offset cancellation capacitor connecting
254	RFGC		Analog output	RF AGC loop capacitor connecting for DVD-ROM
255	IREF		Analog Input	Current reference input. It generates reference current for RF path. Connect an external 15K resistor to this pin and AVSS.
256	AVDD3		Power	Analog power 3.3V
1	AGND		Ground	Analog ground
2	DVDA		Analog Input	AC coupled input path A
3	DVDB		Analog Input	AC coupled input path B
4	DVDC		Analog Input	AC coupled input path C
5	DVDD		Analog Input	AC coupled input path D
6	DVDRFIP		Analog Input	AC coupled DVD RF signal input RFIP
7	DVDRFIN		Analog Input	AC coupled DVD RF signal input RFIN
8	MA		Analog Input	DC coupled main-beam RF signal input A
9	МВ		Analog Input	DC coupled main-beam RF signal input B
10	MC		Analog Input	DC coupled main-beam RF signal input C
11	MD		Analog Input	DC coupled main-beam RF signal input D
12	SA		Analog Input	DC coupled sub-beam RF signal input A
13	SB		Analog Input	DC coupled sub-beam RF signal input B
14	SC		Analog Input	DC coupled sub-beam RF signal input C
15	SD		Analog Input	DC coupled sub-beam RF signal input D
16	CDFON		Analog Input	CD focusing error negative input
17	CDFOP		Analog Input	CD focusing error positive input
18	TNI		Analog Input	3 beam satellite PD signal negative input
19	TPI		Analog Input	3 beam satellite PD signal positive input

■ ALPC (4)

No.	Name	Alt.	I/O	Function
20	MDI1		Analog Input	Laser power monitor input
21	MDI2		Analog Input	Laser power monitor input
22	LDO2		Analog Output	Laser driver output
23	LDO1		Analog Output	Laser driver output

■ ADC for SACD (5)

No.	Name	Alt.	I/O	Function
239	ADCVDD3		Power	Analog 3.3V Power for ADC
240	S_VCM		Analog Inout	SACD- Common mode reference
241	ADCVSS		Ground	Analog ground for ADC
242	S_VREFP		Analog Inout	SACD- TOP Reference
243	S_VREFN		Analog Inout	SACD- Bottom Reference

■ Reference Voltage (3)

No.	Name	Alt.	I/O	Function	
28	V2REFO		Analog output	Reference voltage 2.8V	
29	V20		Analog output	Reference voltage 2.0V	
30	VREFO		Analog output	Reference voltage 1.4V	

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■ Analog Monitor Output (7)

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No.	Name	Alt.	I/O	Function	
24	SVDD3		Power	Analog power 3.3V	
25	CSO	RFOP	Analog output	Central servo Positive main beam summing output	
26	RFLVL	RFON	Analog output	RFRP low pass, or Negative main beam summing output	
27	SGND		Ground	Analog ground	
31	FEO		Analog output	Focus error monitor output	
32	TEO		Analog output	Tracking error monitor output	
33	TEZISLV		Analog output	TE Slicing Level	

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■ Analog Servo Interface (6)

No.	Name	Alt.	I/O	Function
244	RFVDD3		Power	Analog Power
245	RFRPDC		Analog output	RF ripple detect output
246	RFRPAC		Analog Input	RF ripple detect input(through AC-coupling)
247	HRFZC		Analog Input	High frequency RF ripple zero crossing
248	CRTPLP		Analog output	Defect level filter capacitor connecting
249	RFGND		Ground	Analog Ground

■ RF Data PLL Interface (9)

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No.	Name	Alt.	I/O	Function
230	JITFO		Analog output	The output terminal of RF jitter meter.
231	JITFN		Analog Input	The input terminal of RF jitter meter.
232	PLLVSS		Ground	Ground pin for data PLL and related analog circuitry.
233	IDACEXLP		Analog output	Data PLL DAC Low-pass filter
234	PLLVDD3		Power	Power pin for data PLL and related analog circuitry.
235	LPFON		Analog Output	The negative output of loop filter amplifier
236	LPFIP		Analog Input	The positive input terminal of loop filter amplifier.
237	LPFIN		Analog Input The negative input terminal of loop filter amplifier.	
238	LPFOP		Analog Output	The positive output of loop filter amplifier

■ Motor and Actuator Driver Interface (10)

No.	Name	Alt.	I/O	Function	
34	OP_OUT		Analog output	Op amp output.	
35	OP_INN		Analog input	Op amp negative input	
36	OP_INP		Analog input	Op amp positive input	
37	DMO		Analog Output	Disk motor control output. PWM output.	
38	FMO		Analog Output	Feed motor control. PWM output.	
39	TROPENPWM		Analog Output	Tray PWM output / Tray open output.	
40	PWMOUT1	V_ADIN9	Analog Output	1st General PWM output, or Version AD input 9	
41	TRO		Analog Output	Tracking servo output. PDM output of tracking servo compensator.	
42	FOO		Analog Output	Focus servo output. PDM output of focus servo compensator	
47	FG (Digital pin)	V_ADIN8	LVTTL 3.3V Input, Schmitt Input, pull-up, with analog input path for V_ADIN8	Motor Hall sensor input, or Version AD input 8	

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■ General Power / Ground (32)

No.	Name	Alt.	I/O	Function
52, 97, 122, 152, 173, 221	DVDD18		Power	1.8V power pin for internal digital circuitry
85, 116, 144, 163, 216	DVSS		Ground	1.8V Ground pin for internal digital circuitry
73, 80, 108, 127, 141, 155, 167, 182, 212	DVDD3		Power	3.3V power pin for internal digital circuitry
62, 94, 119, 134, 148, 161, 175, 223	DVSS		Ground	3.3V Ground pin for internal digital circuitry
204	DVDD3		Power	3.3V power pin Video DAC digital circuitry only
63	APLLCAP		Analog Inout	APLL External Capacitance connection
64	APLLVSS		Ground	Ground pin for audio clock circuitry
65	APLLVDD3		Power	3.3V Power pin for audio clock circuitry

■ Micro Controller and Flash Interface (48)

No.	Name	Alt.	I/O	Function
59	HIGHA0		Inout, 2-16MA, SR, PU	Microcontroller address 8
75	HIGHA1		Inout, 2-16MA, SR, PU	Microcontroller address 9
74	HIGHA2		Inout, 2-16MA, SR, PU	Microcontroller address 10
72	HIGHA3		Inout, 2-16MA, SR, PU	Microcontroller address 11
71	HIGHA4		Inout, 2-16MA, SR, PU	Microcontroller address 12
70	HIGHA5		Inout, 2-16MA, SR, PU	Microcontroller address 13
69	HIGHA6		Inout, 2-16MA, SR, PU	Microcontroller address 14
68	HIGHA7		Inout, 2-16MA, SR, PU	Microcontroller address 15
91	AD7		Inout, 2-16MA, SR	Microcontroller address/data 7
88	AD6		Inout, 2-16MA, SR	Microcontroller address/data 6
87	AD5		Inout, 2-16MA, SR	Microcontroller address/data 5
86	AD4		Inout, 2-16MA, SR	Microcontroller address/data 4
84	AD3		Inout, 2-16MA, SR	Microcontroller address/data 3
83	AD2		Inout, 2-16MA, SR	Microcontroller address/data 2
82	AD1		Inout, 2-16MA, SR	Microcontroller address/data 1
81	AD0		Inout, 2-16MA, SR	Microcontroller address/data 0
93	IOA0		Inout, 2-16MA, SR, PU	Microcontroller address 0 / IO
78	IOA1		Inout, 2-16MA, SR, PU	Microcontroller address 1 / IO
53	IOA2		Inout, 2-16MA, SR, PU	Microcontroller address 2 / IO
54	IOA3		Inout, 2-16MA, SR, PU	Microcontroller address 3 / IO
55	IOA4		Inout, 2-16MA, SR, PU	Microcontroller address 4 / IO
56	IOA5		Inout, 2-16MA, SR, PU	Microcontroller address 5 / IO
57	IOA6		Inout, 2-16MA, SR, PU	Microcontroller address 6 / IO
58	IOA7		Inout, 2-16MA, SR, PU	Microcontroller address 7 / IO
67	A16		Output, 2-16MA, SR	Flash address 16
92	A17		Output, 2-16MA, SR	Flash address 17
60	IOA18		Inout, 2-16MA, SR, SMT	Flash address 18 / IO
61	IOA19		Inout, 2-16MA, SR, SMT	Flash address 19 / IO
76	IOA20		Inout, 2-16MA, SR, SMT	Flash address 20 / IO
89	IOA21	V_ADIN0	Inout, 2-16MA, SR, SMT	Flash address 21 / IO While External FLASH size <= 2MB: Version AD input port 0, or GPIO

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No.	Name	Alt.	I/O	Function
90	ALE		Inout, 2-16MA, SR, PU, SMT	Microcontroller address latch enable
79	IOOE#		Inout, 2-16MA, SR, SMT	Flash output enable, active low / IO
66	IOWR#		Inout, 2-16MA, SR, SMT	Flash write enable, active low / IO
77	IOCS#		Inout, 2-16MA, SR, PU, SMT	Flash chip select, active low / IO
95	UWR#		Inout, 2-16MA, SR, PU, SMT	Microcontroller write strobe, active low
96	URD#		Inout, 2-16MA, SR, PU, SMT	Microcontroller read strobe, active low
98	UP1_2		Inout, 4MA, SR, PU, SMT	Microcontroller port 1-2
99	UP1_3		Inout, 4MA, SR, PU, SMT	Microcontroller port 1-3
100	UP1_4		Inout, 4MA, SR, PU, SMT	Microcontroller port 1-4
101	UP1_5		Inout, 4MA, SR, PU, SMT	Microcontroller port 1-5
102	UP1_6	SCL	Inout, 4MA, SR, PU, SMT	Microcontroller port 1-6 I ² C clock pin
103	UP1_7	SDA	Inout, 4MA, SR, PU, SMT	Microcontroller port 1-7 I ² C data pin
104	UP3_0	RXD	Inout, 4MA, SR, PU, SMT	Microcontroller port 3-0 8032 RS232 RXD
105	UP3_1	TXD	Inout, 4MA, SR, PU, SMT	Microcontroller port 3-1 8032 RS232 TXD
106	UP3_4	RXD SCL	Inout, 4MA, SR, PU, SMT	Microcontroller port 3-4 Hardwired RD232 RXD I ² C clock pin
107	UP3_5	TXD SDA	Inout, 4MA, SR, PU, SMT	Microcontroller port 3-5 Hardwired RD232 TXD I ² C data pin
111	IR		Input, SMT	IR control signal input
112	INT0#		Inout, 2-16MA, SR, PU, SMT	Microcontroller external interrupt 0, active low

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■ Audio Interface (14)

No.	Name	Alt.	I/O	Function	
208	SPMCLK	SCLK0	Inout	Audio DAC master clock of SPDIF input While SPDIF input is not used: Serial interface port 0 clock pin GPIO	
209	SPDATA	SDIN0	Inout	Audio data of SPDIF input While SPDIF input is not used: Serial interface port 0 data-in GPIO	
210	SPLRCK	SDO0	Inout	Audio left/right channel clock of SPDIF input While SPDIF input is not used: Serial interface port 0 data-out GPIO	
211	SPBCK	SDCS0 ASDATA5	Inout	Audio bit clock of SPDIF input While SPDIF input is not used: Serial interface port 0 chip select Audio serial data 5 part I : DSD data sub-woofer channel or Microphone output GPIO	
213	ALRCK		Inout 4MA, PD, SMT	Audio left/right channel clock Trap value in power-on reset: 1 : use external 373 0: use internal 373	
214	ABCK	Fs64	Output 4MA	Audio bit clock Phase de-modulation	
215	ACLK		Inout, 4MA	Audio DAC master clock	
217	ASDATA0		Inout, 4MA, PD SMT	Audio bac master clock Audio serial data 0 (Front-Left/Front-Right) DSD data left channel Trap value in power-on reset: 1: manufactory test mode 0: normal operation	
218	ASDATA1		Inout, 4MA, PD SMT	Audio serial data 1 (Left-Surround/Right-Surround) DSD data right channel Trap value in power-on reset: 1: manufactory test mode 0: normal operation While only 2 channels output: GPIO	
219	ASDATA2		Inout, 4MA, PD SMT	Audio serial data 2 (Center/LFE) DSD data left surround channel Trap value in power-on reset: 1: manufactory test mode 0: normal operation While only 2 channels output: GPIO	
220	ASDATA3		Inout, 4MA, PD SMT	Audio serial data 3 (Center-back/ Center-left-back/Center-right-back, in 6.1 or 7.1 mode) DSD data right surround channel Trap value in power-on reset: 1: manufactory test mode 0: normal operation While only 2 channels output: GPIO	
222	ASDATA4	INT1#	Inout, 4MA, PD SMT	Audio serial data 4 (Down-mixed Left/Right) DSD data center channel Trap value in power-on reset: 1: manufactory test mode 0: normal operation While only 2 channels output: Microcontroller external interrupt 1 GPIO	
224	MC_DATA	INT2#	Inout	Microphone serial input While not support Microphone: Microcontroller external interrupt 2 GPIO	
225	SPDIF		Output, 2-16MA, SR: ON/OFF	SPDIF output	

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■ Video Interface (18)

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No.	Name	Alt.	I/O	Function	
189	DACVDDC		Power	3.3V power pin for VIDEO DAC circuitry	
190	VREF		Analog	Bandgap reference voltage	
191	FS		Analog	Full scale adjustment	
192	YUV0	CIN	Output 4MA, SR	Video data output bit 0 Compensation capacitor	
193	DACVSSC		Ground	Ground pin for VIDEO DAC circuitry	
194	YUV1	Y	Output 4MA, SR	Video data output bit 1 Analog Y output	
195	DACVDDB		Power	3.3V power pin for VIDEO DAC circuitry	
196	YUV2	С	Output 4MA, SR	Video data output bit 2 Analog chroma output	
197	DACVSSB		Ground	Ground pin for VIDEO DAC circuitry	
198	YUV3	CVBS	Output 4MA, SR	Video data output bit 3 Analog composite output	
199	DACVDDA		Power	3.3V power pin for VIDEO DAC circuitry	
200	YUV4	Y/G	Output 4MA, SR	Video data output bit 4 Green or Y	
201	DACVSSA		Ground	Ground pin for VIDEO DAC circuitry	
202	YUV5	B/Cb/Pb	Output 4MA, SR	Video data output bit 5 Blue or CB	
203	YUV6	R/Cr/Pr	Output 4MA, SR	Video data output bit 6 Red or CR	
205	VSYN	V_ADIN1	Inout 4MA, SR SMT	Vertical sync input/output While no External TV-encoder: Vertical sync for video-input Version AD input port 1 GPIO	
206	YUV7	INT3# ASDATA5	Inout 4MA, SR SMT	Video data output bit 7 While no External TV-encoder: Microcontroller external interrupt 3 Audio serial data 5 part II : DSD data sub-woofer channel or Microphone output GPIO	
207	HSYN	INT4# V_ADIN2	Inout 4MA, SR SMT	Horizontal sync input/output While no External TV-encoder: Horizontal sync for video-input Microcontroller external interrupt 4 Version AD input port 2 GPIO	

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■ MISC (8)

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No.	Name	Alt.	I/O Function		
43	USB_VSS		USB Ground	USB ground pin	
44	USBP		Analog Inout	USB port DPLUS analog pin	
45	USBM		Analog Inout	USB port DMINUS analog pin	
46	USB_VDD3		USB Power	USB Power pin 3.3V	
110	PRST#		Input PU, SMT Power on reset input, active low		
109	ICE		Input PD, SMT	Microcontroller ICE mode enable	
228	XTALO		Output	27M crystal out	
229	XTALI		Input	27M crystal in	

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	DRAM Interface (63)(sorted by position)					
No.	Name	Alt.	I/O	Function		
188	RD16	LLC_CLK SMPTE_C[0]	Inout Pull-Down	DRAM data 16 While using 16-bits wide DRAM: Line Locked Clock input/output Digital Video output C bit 0 GPIO		
187	RD17	YUVIN0 SMPTE_C[1]	Inout Pull-Down	DRAM data 17 While using 16-bits wide DRAM: Video input data 0 Digital Video output C bit 1 GPIO		
186	RD18	YUVIN1 SMPTE_C[2]	Inout Pull-Down	DRAM data 18 While using 16-bits wide DRAM: Video input data 1 Digital Video output C bit 2 GPIO		
185	RD19	YUVIN2 SMPTE_C[3]	Inout Pull-Down	DRAM data 19 While using 16-bits wide DRAM: Video input data 2 Digital Video output C bit 3 GPIO		
184	RD20	YUVIN3 SMPTE_C[4]	Inout Pull-Down	DRAM data 20 While using 16-bits wide DRAM: Video input data 3 Digital Video output C bit 4 GPIO		
183	RD21	YUVIN4 SMPTE_C[5]	Inout Pull-Down	DRAM data 21 While using 16-bits wide DRAM: Video input data 4 Digital Video output C bit 5 GPIO		
181	RD22	YUVIN5 SMPTE_C[6]	Inout Pull-Down	DRAM data 22 While using 16-bits wide DRAM: Video input data 5 Digital Video output C bit 6 GPIO		
180	RD23	YUVIN6 SMPTE_C[7]	Inout Pull-Down	DRAM data 23 While using 16-bits wide DRAM: Video input data 6 Digital Video output C bit 7 GPIO		
179	DQM2	YUVIN7	Inout Pull-Up	Data Mask 2 While using 16-bits wide DRAM: Video input data 7 GPIO		
178	DQM3	INT6# SMPTE_CLK USB_CLK	Inout Pull-Up	Data Mask 3 While using 16-bits wide DRAM: Microcontroller external interrupt 6 Digital Video output Clock USB port CLK input (48MHz) part II GPIO		
177	RD24	SDIN1 MS_BS SMPTE_Y[0]	Inout Non-pull	DRAM data 24 While using 16-bits wide DRAM: Serial interface port 1 data-in MS Card BS pin part II Digital Video output Y bit 0 GPIO		
176	RD25	SDO1 MS_SDIO SMPTE_Y[1]	Inout Non-pull	DRAM data 25 While using 16-bits wide DRAM: Serial interface port 1 data-out MS Card SDIO pin part II Digital Video output Y bit 1 GPIO		

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No.	Name	Alt.	I/O	Function	
110.	INAILLE	AIL.	1/0	DRAM data 26	
174	RD26	SDCS1 MSCLK SMPTE_Y[2]	Inout Non-pull	While using 16-bits wide DRAM: Serial interface port 1 chip select Memory Stick Clock part II Digital Video output Y bit 2 GPIO	
172	RD27	SCLK2 SDCLK SMPTE_Y[3]	Inout Non-pull	DRAM data 27 While using 16-bits wide DRAM: Serial interface port 2 clock pin Security Disk Clock part II Digital Video output Y bit 3 GPIO	
171	RD28	SDIN2 SD_CMD SMPTE_Y[4]	Inout Non-pull	DRAM data 28 While using 16-bits wide DRAM: Serial interface port 2 data-in SD Card CMD pin part II Digital Video output Y bit 4 GPIO	
170	RD29	SDO2 SD_DAT SMPTE_Y[5]	Inout Non-pull	DRAM data 29 While using 16-bits wide DRAM: Serial interface port 2 data-out SD Card Data pin part II Digital Video output Y bit 5 GPIO	
169	RD30	SDCS2 SMPTE_Y[6]	Inout Pull-Up	DRAM data 30 While using 16-bits wide DRAM: Serial interface port 2 chip select Digital Video output Y bit 6 GPIO	
168	RD31	INT5# ASDATA5 SMPTE_Y[7]	Inout Pull-Up	DRAM data 31 While using 16-bits wide DRAM: Microcontroller external interrupt 5 Audio serial data 5 part III: DSD data sub-woofer channel or Microphone output Digital Video output Y bit 7 GPIO	
166	RA4		Inout	DRAM address 4	
165	RA5		Inout	DRAM address 5	
164	RA6		Inout	DRAM address 6	
162	RA7		Inout	DRAM address 7	
160	RA8		Inout	DRAM address 8	
159	RA9		Inout	DRAM address 9	
	RA11	GPIO	Inout Pull-Down	DRAM address bit 11 While using DRAM size <=4MB: GPIO	
157	CKE		output	DRAM clock enable	
156	RCLK		Inout	DRAM clock	
154	RCLKB	USB_CLK	Inout	DRAM clock invert While not using DDR: I) USB port CLK input (48MHz) part I	
153	RVREF	V_ADIN3	Analog Inout	Reference voltage for DDR DRAM While not using DDR: Version AD input port 3	
151	RA3		Inout	DRAM address 3	
150	RA2		Inout	DRAM address 2	
149	RA1		Inout	DRAM address 1	
	RA0		Inout	DRAM address 0	
	RA10		Inout	DRAM address 10	
145			Inout	DRAM bank address 1	
143	BA0		Inout	DRAM bank address 0	

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No.	Name	Alt.	I/O	Function	
	RCS#		output	DRAM chip select, active low	
	RAS#		output	DRAM row address strobe, active low	
	CAS#		output	DRAM column address strobe, active low	
	RWE#		output	DRAM Write enable, active low	
137	DQM1		Inout	Data mask 1	
136	DQS1	INT7# MS_BS	Inout	Data strobe 1 for DDR DRAM While not using DDR: Microcontroller external interrupt 7 MS Card BS pin part I GPIO	
135	RD8		Inout	DRAM data 8	
133	RD9		Inout	DRAM data 9	
132	RD10		Inout	DRAM data 10	
131	RD11		Inout	DRAM data 11	
130	RD12		Inout	DRAM data 12	
129	RD13		Inout	DRAM data 13	
128	RD14		Inout	DRAM data 14	
126	RD15		Inout	DRAM data 15	
125	RD0		Inout	DRAM data 0	
124	RD1		Inout	DRAM data 1	
123	RD2		Inout	DRAM data 2	
121	RD3		Inout	DRAM data 3	
120	RD4		Inout	DRAM data 4	
118	RD5		Inout	DRAM data 5	
117	RD6		Inout	DRAM data 6	
115	RD7		Inout	DRAM data 7	
114	DQS0	SCLK1 MS_SDIO	Inout	Data strobe 0 for DDR DRAM While not using DDR: Serial interface port 1 clock pin MS Card SDIO pin part I GPIO	
113	DQM0		Inout	Data mask 0	

■ JTAG Interface (4)

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	JIAG Interface (4)					
No.	Name	Alt.	I/O	Function		
48	TDI	SDO3 V_ADIN4 SD_DAT	Inout	JTAG data in While not using Boundary Scan: Serial interface port 3 data-out Version AD input port 4 SD Card Data pin part I GPIO		
49	TMS	SDIN3 V_ADIN5 SD_CMD	Inout	While not using Boundary Scan: Serial interface port 3 data-in Version AD input port 5 SD Card CMD pin part I GPIO		
50	тск	SCLK3 V_ADIN6 SDCLK	Inout	JTAG clock While not using Boundary Scan: Serial interface port 3 clock pin Version AD input port 6 Security Disk Clock part I GPIO		
51	TDO	SDCS3 V_ADIN7 MSCLK	Inout	JTAG data out While not using Boundary Scan: Serial interface port 3 chip-select Version AD input port 7 Memory Stick Clock part I GPIO		

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7.3 DISC / CONTENT FORMAT PLAYBACK COMPATIBILITY

Disc / content format playback compatibility

This player is compatible with a wide range of disc types (media) and formats. Playable discs will generally feature one of the following logos on the disc and/or disc packaging. Note however that some disc types, such as recordable CD and DVD, may be in an unplayable format—see below for further compatibility information.

Please also note that recordable discs cannot be recorded using this player.



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DVD-Audio DVD-Video







Audio CD Video CD

CD-R

CD-RW



Super Audio CD





Fujicolor CD

- 💇 is a trademark of Fuji Photo Film Co. Ltd.
- Also compatible with KODAK Picture CD

CD-R/RW compatibility

• Compatible formats: CD-Audio, Video CD/ Super VCD, ISO 9660 CD-ROM* containing MP3, WMA or JPEG files

- * ISO 9660 Level 1 or 2 compliant. CD physical format: Mode1, Mode2 XA Form1. Romeo and Joliet file systems are both compatible with this player.
- · Multi-session playback: No
- Unfinalized disc playback: No

DVD-R/RW compatibility

- Compatible formats: DVD-Video, Video Recording (VR)*
 - * Edit points may not play exactly as edited; screen may go momentarily blank at edited
- Unfinalized playback: No
- WMA/MP3/JPEG file playback on DVD-R/ RW: No

Compressed audio compatibility

- Compatible formats: MPEG-1 Audio Laver 3 (MP3), Windows Media Audio (WMA)
- Sampling rates: 32, 44.1 or 48kHz
- Bit-rates: Any (128Kbps or higher recommended)
- · VBR (variable bit rate) MP3 playback: No
- VBR WMA playback: No
- WMA lossless encoding compatible: No
- DRM (Digital Rights Management) compatible: Yes (DRM-protected audio files will *not* play in this player)
- File extensions: .mp3, .wma (these must be used for the player to recognize MP3 and WMA files – do not use for other file types)
- File structure: Up to 299 folders; up to 648 folders and files combined

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The Windows $\mathrm{Media}^{(\! R \!)}\log printed$ on the box indicates that this player can playback Windows Media Audio content.

WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation. WMA content can be encoded by using Windows Media[®] Player version 7, 7.1, Windows Media[®] Player for Windows® XP, or Windows Media® Player 9 Series.

Microsoft, Windows Media, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/ or other countries.

JPEG file compatibility

- Compatible formats: Baseline JPEG and EXIF 2.2* still image files up to a resultion of 3072 x 2048.
 - *File format used by digital still cameras
- Progressive JPEG compatible: No
- File extensions: .jpg (must be used for the player to recognize JPEG files - do not use for other file types)
- File structure: Up to 299 folders; up to 648 folders and files combined

PC-created disc compatibility

Discs recorded using a personal computer may not be playable in this unit due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.

Discs recorded in packet write mode (UDF format) are not compatible with this player. Check the DVD-R/RW or CD-R/RW software disc boxes for additional compatibility information.

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7.4 CLEANING



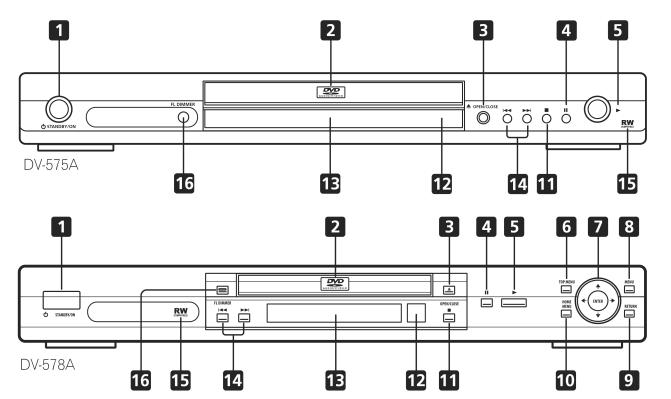
A Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools:

Position to be cleaned	Cleaning tools	
Pickup lenses	Cleaning liquid: GEM1004 Cleaning paper: GED-008	

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8. PANEL FACILITIES

Front panel



- 1 **U STANDBY/ON**
- 2 Disc tray
- 3 ▲ OPEN/CLOSE
- 4 II
- **5** ▶
- 6 TOP MENU
- 7 ENTER & cursor buttons

5

8 MENU

- 9 RETURN
- 10 HOME MENU

7

- 11 ■
- 12 Remote control sensor
- 13 Display
- 14 |**◄◄** and **▶**▶|
- 15 RW Compatible
- **16 DIMMER** Press to change the brightness of the front panel display.

99

В

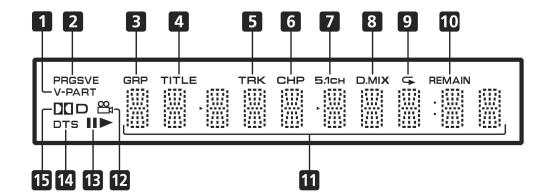
С

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Display

Α



1 V-PART

■ Lights when playing a video part of a DVD disc.

2 PRGSVE

Lights when the player is set to output progressive scan video.

3 GRP

Indicates that the character display is showing a DVD-Audio group number.

4 TITLE

Indicates that the character display is showing a DVD title number.

5 TRK

Indicates that the character display is showing a DVD-Audio, SACD, CD or Video CD/Super VCD track number.

6 CHP

Indicates that the character display is showing a DVD chapter number.

7 5 1CH

E Lights when analog 5.1 channel output is selected.

8 D.MIX

3

During multichannel audio playback, indicates that the output signal has been "downmixed" from the original audio source. This is an automatic function performed by the player in order to present the most appropriate audio mix to the speakers present in your system.

9 🖘

Lights in any of the repeat play modes.

10 REMAIN

Indicates that the character display is showing the disc or title/chapter/track remain time.

11 Character display

12 ²⁰

Lights during multi-angle scenes on a DVD disc.

13 **II** and ▶

Indicates whether a disc is playing or paused.

14 DTS

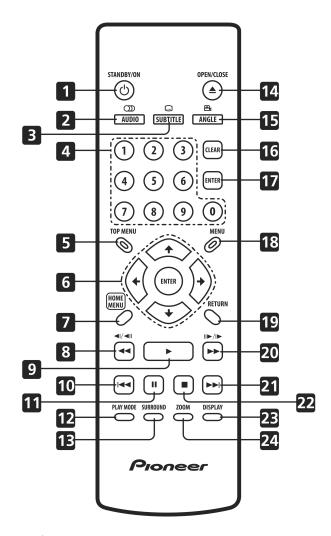
Lights when a DTS soundtrack is playing.

15 DO D

Lights when a Dolby Digital soundtrack is playing.

100

Remote control



- 1 **O STANDBY/ON**
- 2 AUDIO
- 3 SUBTITLE
- 4 Number buttons
- 5 TOP MENU
- 6 ENTER & cursor buttons
- **7 HOME MENU**
- 8 **◄** and **◄** I/**◄** II

5

- 9 🕨
- 10 ◄◀

- 11 II
- 12 PLAY MODE

7

- 13 SURROUND
- 14 ▲ OPEN/CLOSE
- 15 ANGLE
- 16 CLEAR
- 17 ENTER
- 18 MENU
- 19 RETURN
- 20 **▶▶** and **I▶**/II▶
- 21 ▶▶
- 22
- 23 DISPLAY
- **24 ZOOM**

Using the remote control

Keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- The remote has a range of about 7m (23ft.).
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.

8

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■ Jigs list

Name	Jig No.	Remarks
Service Remote Control Unit	GGF1381	diagnosis
DVD Data Disc	GGV1175 (& GGV1171)	diagnosis (ID data setting) • GGV1175 is to be released in May, 2004. Use only GGV1175 after GGV1175 was released because GGV1175 includes all the data of GGV1171.
DVD Test Disc (DVD-Video)	GGV1025	Check of DVD-Video
CD Test Disc	STD-905	Check of CD
DVD Test Disc (DVD-Audio)	GGV1070	Check of DVD-Audio

3

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В

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